
Senior Application Engineer – Fiber Access

The Senior Application Engineer – Fiber Access is a key position to assist in the technical selection and validation of Technetix fibre access products and solutions and support go to market activities.

Reports To: VP Product Management – Fiber Access

Location: Netherlands, UK, or Spain

Effective Date: Immediate

ROLE DESCRIPTION

Senior Application Engineer – is the senior technical application lead for Technetix Fiber Access products and systems and covers the following,

- The technical evaluation, validation, and acceptance of all fiber access products including optical actives, optical passives and software systems.
- Liaising with technology partners and suppliers to ensure parts received meet Technetix requirements and specifications.
- Collaborating with Technetix engineering teams to provide support and guidance for in house developed products and systems – software and hardware.
- Preparing and presenting technical reports to internal teams, technology partners and customers.
- Training internal teams, technology partners and customers in how to install, configure and test fiber access products and systems.
- Providing guidance to Technetix quality organization on how to test and validate conformance of Fiber Access products.
- Supporting the sales engineering teams in customer demos and evaluations and field trials.

As part of the product management team the role primarily involves onboarding in house developed as well as third party developed fiber access products and solutions. It also includes supporting Technetix customers in concert with Technetix sales and support engineering teams and collaborating with partners providing in depth technical support during demonstrations, evaluations, trials and pilots, and network builds and operation.

The Senior Application Engineer – Fiber Access is a key role to assist in the technical selection and validation of Technetix fibre access products and solutions and requires broad experience and industry knowledge and know-how and includes (not limited to)

- interoperability and conformance to ITU, IETF, Cablelabs and BBF standards and technical recommendations
- thermal evaluations
- system performance
- system configuration, operation and general useability
- hardware design best practice – critical parts placement, connectivity, external look and feel, robustness, system useability
- test systems and test rigs

KEY RESPONSIBILITIES

- Technical evaluation, validation, and acceptance of all fiber access products including optical actives, optical passives and software systems.
- Liaising with technology partners and suppliers to ensure parts received meet Technetix requirements and specifications.

- Collaborating with Technetix engineering teams to provide support and guidance for in house developed products and systems – software and hardware.
- Preparing and presenting technical reports to internal teams, technology partners and customers.
- Training internal teams, technology partners and customers in how to install, configure and test fiber access products and systems.
- Providing guidance to Technetix quality organization on how to test and validate conformance of Fiber Access products.
- Supporting the sales engineering teams in customer demos and evaluations and field trials.

KEY PROJECTS <OR> CLIENTS

rOLT

Supporting the test and optimisation of the current GPON / XGS-PON rOLT including

- Thermal performance and optimisation
- Configuration options
- Switch operation and conformance
- MicroOLT operation and conformance

Izzi

Supporting izzi in the roll out of the rOLT, including technical support as part of Technetix technical support team

OLT/Switch Software Development

Working with the Technetix software development team (Bilbao, Spain) to improve the functionality and robustness of the PON controller software, ass siting with testing, system configurations and access to systems in VDL, Denver etc.

rOLT 2

Assist and contribute to the next generation rOLT that will support GPON, XGS-PON and Combo PON, including collaborating with partners, specifying and implementing test, validation and acceptance plans. This also includes supporting lab n=builds based on pre-production reference builds

ONU

Support the OBU/ONT/HGU PLM in specifying and implementing test, validation and acceptance plans.

Interoperability

Combine with sales engineering (Ylli, Nick, Igal etc) and Technetix software development team (Bilbao, Spain) and lead Technetix OLT and ONU interoperability capability utilising OLT and test equipment assets.

Test Rig

Working with Technetix software development team (Bilbao, Spain) develop test rigs and systems for the test and validation of Technetix PON system operation at scale including full loading of OLTs and PON controller to validate performance and operation

rOLT Customer Prospects (Germany, USA, LATAM, Netherlands)

Support next group of rOLT and rOLT 2 customers including customer specific configurations that incorporate GPON, XGS-PON and Combo PON

QUALIFICATIONS

Practical experience of building, configuring and testing PON systems, including understanding of the appropriate technical standards and recommendations and how to test and validate.

Degree / HND in telecommunications, semiconductors, photonics, or electronic and electrical engineering.

Written and verbal communication skills – concise and accurate.

Language skills – English and Spanish ideal. Chinese language skills beneficial.

KEY COLLEAGUES

Collaborate closely with department heads, managers, and other stakeholders to align operational initiatives with business objectives. Foster effective communication and collaboration across teams to drive cohesive efforts towards operational excellence.

These include:

- PLM Managers
- PLM Head of department/group
- PLM CPO
- Sales Engineers
- Sales Managers and Directors
- Engineering Directors
- Quality Engineers
- Head of Quality

COMMUNICATION LINES

Collaborate with: PLM team members, Technetix software development team (Bilbao, Spain), QE team, Engineering team, Sales engineering teams, partner engineering teams including Silicon suppliers and design and manufacturing partners

Consult with: PLM group lead, CPO, Technetix software development team (Bilbao, Spain), engineering leads

Inform: PLM group lead, CPO, Technetix software development team (Bilbao, Spain),

Accountable to: Multiple recipients of work carried out including sales teams, partners, engineering team, QE team and PLM team

SUPPORTING DOCUMENTS

<LINK TO SUPPORTING DOCUMENT>

<LINK TO SUPPORTING DOCUMENT>

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