

DWDM and OTN System Architect

Location: Lannion, FRANCE

Contract: Full-time

Department: R&D

Telework options: hybrid on site – remote

Looking for an exciting and permanent job in a fast-growing high-tech company, offering a variety of assignments and interactions? Join our teams in Brittany, a dynamic and innovating region.

Job Context

For over 20 years, Ekinops has been driving innovation in network systems and equipments. We provide solutions focused on the needs of communication service providers and enterprises worldwide. We provide **open, trusted and innovative network connectivity** and enable our **customers' success** by delivering **high value-added** software-driven solutions. Today, over 120 international service providers, including numerous Tier 1 carriers around the world, trust our people and technologies. Over 50% of our 500-strong team works in our multi-national Agile R&D centers. Our company has a strong international background, with sales offices strategically located around the world.

Duties and Responsibilities

As part of a 60+ staff international R&D team, you will have the following responsibilities:

- You work in close relation with Product Line Management to understand products and features to be developed and translate them in detailed system specifications.
- You can be requested together with PLM to interact with customers for prioritizing features to be developed.
- You define Transport Products System Architecture:
 - you will be leading the product system architecture definition with the hardware development team (mechanical, electronics, optics), the embedded software development teams and the Network Management development teams



- You define Products System behavior
 - You will be defining how the products have to be configured (transponders wavelength configuration, ROADMs configurations, OTN tails and services configuration, ...)
 - You will be defining the alarms to be generated
- You will be defining the Man Machine interface features to be implemented for a user friendly experience
 - For a CLI
 - For a GUI
- You will be defining end-to-end features such as
 - Network topology discovery
 - DWDM Wavelength services management across an optical network
 - DWDM client services management across an optical network
 - OTN trails management across an optical network
 - OTN services management across an optical network
 - Services Protection (1+1) and restoration (1+1, 1+N, ...)
- You will be defining system function to be implemented on different products (DWDM platform, OTN platform, Celestis NMS SDN Network Manager) for end to end features defined above
- You will work in close relation with Product Owners of the different scrum teams for defining the EPICs and stories required for developing end to end user stories needed on different products for implementing features
- You will be in charge of generating and maintaining a product and system Architecture Document

Profile and skills

As part of a multidisciplinary R&D team, you appreciate to work with a high level of **autonomy** and **ownership**. You have the opportunity to closely collaborate with End-to-End product development teams (from specification to validation). You appreciate to take part of the constant **evolution** of your product, taking part of the **feasibility** studies, definition of the **solution** and studying the improvement/**innovation** threads.

Education: Engineer with solid hardware and software background in optical transport products and network managers for DWDM and OTN optical networks

Experience: 10 year+ on defining optical transport products system and software architecture, including network managers



Skills

- Strong knowledge of DWDM and OTN technologies
- Hardware architecture
- Software Architecture
- Netconf protocol
- Yang modelling
- Embedded Linux (buildroot, yocto, other...), Drivers, Switch
- Agile methodology
- Fluent in English
- Nice to have:
 - basic knowledge of I2C, SPI, USB
 - SW Development on microcontroller such as NXP
 - Development on ARM microprocessor platforms
 - Programming in Erlang

Recruitment process

3 interviews

- 1st interview with Transport R&D Senior Director
- 2nd interview with HR
- 3rd interview with CTO and VP R&D

To apply

Ekinops endeavours to be an employer of choice. Our teams are dedicated, imaginative and astute. We strive to work together around our core values, which includes dynamism, empowerment and customer focus.

Send your application to hr@ekinops.com