

Department: Lannion Transport R&D

Title of job: **Hardware Development Engineer**

Date of hire: 01/09/2021

Workplace: Lannion

Type of contract: Permanent full time

Description of the job:

Ekinops is a leading provider of open and fully interoperable Layer 1, 2 and 3 solutions to service providers around the world.

As a hardware development engineer based in Lannion, you will have responsibilities for developing, debugging and testing hardware modules for our OTN/WDM hardware platforms. You will integrate an international hardware design team (France / Brazil) to develop, transponders, optical amplifiers, ROADMs, OTN Line and Switching cards for optical transport networks.

Skill of the applicant

Education

- Engineer with strong hardware background.

Main knowledge

- Strong knowledge in analog, digital and RF design :
 - o Clocking system (PLL, TCXO, VCXO...)
 - o Power distribution (DC/DC converter, LDO...)
 - o Analog and digital conversion (CAN, DAC...)
 - o Programmable devices architecture (µC, FPGA, CPLD...)
 - o Serial interfaces design (I2C, SPI, PCIe, Ethernet...)
- Experienced with high-speed PCB design (>20Gb, Microstrip, Stripline, Coplanar...)
- Good knowledge on VHDL development for FPGA and CPLD matrix (Altera, Xilinx, Lattice...)
- Strong skill in CAD system (Schematic, Layout, Simulation, PLM...). Knowledge on Mentor tools would be appreciated.
- Good knowledge in test bench setup (Oscilloscope, protocol analyzer, BERT...) and used to develop Python scripts for test automation.
- Good understanding in Telecom and Datacom standards (SONET/SDH, Ethernet, OTN, Fiber channel...) and in telecom optical subsystems (QSFPs, optical amplifiers, ..).
- Used to Agile development methodology (Scrum, Kanban)

Experience

Minimum of 5 years in hardware development is required.

Particular abilities

- You are used to work in a telecom environment
- You are comfortable working in an international environment in English language
- You are autonomous and self-learning
- You are continuously looking for improvement and you make proposals and alerts

Contact : hr@ekinops.com