

## Optical Systems R&D Expert

**Location : Lannion**

**Contract type : Permanent**

**Department : R&D**

### Job Description

As an R&D Expert, you will provide advice and technical guidance in your area of expertise. You are a recognized expert in your field, both internally and outside Ekinops. You are permanently up-to-date with latest market and technology trends in your field, including competition. You are able to run tenders to select the best technology partners and make strategic recommendations to the top management. You will define optical engineering rules of optical networks based on Ekinops products portfolio. You will be part of a team of Architects and research engineers.

### Job Content

- Identify needs and carry out high stake studies,
- Drive optical transmission performance qualification of Ekinops products portfolio (amplifiers, ROADMs, transponders) on a multi 1000kms fiber test bed
- Propose and benchmark various options in your field of expertise and build recommendations towards top management,
- Maintain a deep level of expertise in your field, be technology savvy and a self-learner willing to share your knowledge with other team members,
- Provide solutions and recommendations in a broad area of expertise
- Develop training material and train / coach Ekinops staff – and potentially external partners or customers
- Ensure a technology watch mission, keeping abreast of the evolutions, highlight and deepen the most strategic ones
- Identify which new technologies, components, languages, practices are relevant to Ekinops, able to perform Proof of Concepts and build a case towards management, support adoption by Ekinops teams
- Participate in working groups (internal and external), represent the company in external events, represent the company in standardization activities
- Lead collaborative or funded projects with multiple stakeholders (internal and external)
- Propose innovation ideas, file patents for Ekinops

### Profile and skills

- Master's degree or PhD in optical telecommunication or photonic systems.

- Professional experience 10 years minimum
- Deep knowledge of WDM systems physical tests and modeling, coherent transmissions, optical amplifiers technologies, ROADMs characterization, ideally with several publications or patents or conferences held
- A good knowledge of optical transmission laboratory environment is necessary: Optical spectrum analyzer, BER tester, power meter etc... Ability to use and develop python or C++ programs for automatic test bench would be a plus.
- Ability to learn including self-training
- Autonomous and curious
- Strong leadership
- Excellent team spirit
- Fluent in English and French (oral and written)
- Able to work in an international team
- Good verbal/written communication skills
- Ability to manage PhD students
- Able to support the optical transport R&D team when introducing new technologies or new subsystems in Ekinops portfolio.