



## Internship - Environmental impact study of optical transport networks and supervision tools

**Location:** Lannion

**Contract type:** Internship

**Department:** R&D – SDx and Cloud

**Duration:** 6 months

**Looking for an exciting internship in a fast-growing high-tech company, inside an international team?**

### Job Context

For over 20 years, Ekinops has been driving innovation in network systems. 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 near 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.

### Job Description

As part of the constant improvement of our Celestis NMS optical transport network supervisor, we offer an internship to study the possibilities of calculating the environmental impact of deployed networks.

### Duties and Responsibilities

You will have to analyze the eco-system, used languages and involved softwares components in order to proceed with:



- Discovery of Ekinops technologies and Optical Networks through documentation and laboratory visits
- Study of the operating principles of NMS and interaction with optical transport equipments (WDM and OTN)
- Analysis of information correlated to the carbon footprint at the level of equipments: power consumption, carbon footprint, dissipated heat, temperature in nominal operation or during specific phases, ...
- Analysis of information feedback that could be provided to customer at NMS Level: power consumption or carbon footprint display, by network or equipment, on charts or maps, ...
- Definition of tools that can be used in the context of environmental impact analysis, in particular related to ISO 14001

## Profile and skills

You are in a Master 2 Degree in Engineering or in last year of Engineering School. You are curious, eager to develop engineering skills with the following technologies:

- SQL, Grafana, ...
- Gitlab, SonarQube, ...
- Python, ...
- Containers
- Ansible, ...
- Data processing AI/ML

You also have

- Autonomy and you are able to conduct research, you are curious
- Good communication skills in both English and French
- Ability to work in multicultural team environment
- General understanding of database and data processing

## Recruitment process

2 interviews

- 1<sup>st</sup> with Department manager/Team leader
- 2<sup>nd</sup> interview with HR



### To apply

Ekinops endeavors 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](mailto:hr@ekinops.com)