

In Nuage Networks we are bringing a unique combination of ground breaking technologies and unmatched networking expertise delivering a massively scalable SDN solution that ensures the datacenter and wide area network are able to respond instantly to demand and are boundary-less.

The cloud can be more than that it is. In fact, it needs to be. When we founded Nuage Networks, it was with the idea that it's time for the cloud to come of age. From the beginning, we recognized the unique challenges that cloud service providers and large enterprises face delivering and managing large, multi-tenant clouds.

Nuage Networks is a Nokia Networks venture and technology leading in Software Defined Networking (SDN) and Policy-Driven Network virtualization and abstraction.

Leveraging a unique combination of ground breaking SDN technologies and unmatched networking expertise we are able to deliver a massively scalable SDN solution, making the datacenter and wide area network boundary-less.

The Nuage Networks engineering team in Antwerp was founded in 2015, is fully energized and highly contributive in disrupting the industry.

The team is closely collaborating with the team in Mountain View, CA.

Read more about us at  
[www.nuagenetworks.net](http://www.nuagenetworks.net)

### **How to apply for the internships**

You can apply on our website [www.nokia.com/careers](http://www.nokia.com/careers). Every internship has a code that you can use to filter the internship you prefer.

## Nuage Internship 'ExpertSystem4DataCenter'

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**Type:** Internship      **Duration:** 4-12 weeks

This internship seeks a motivated student willing to dive into the various technologies present in nowadays datacenters. In a collaborative way, you will prototype an expert system that interfaces with the different technology domains upon which the Nuage Virtual Services Platform touches.

Depending on your interests, you can work with any of the following technologies:

- Virtualization (Kvm/Vmware) and Container technologies (Docker)
- Databases and Clustering (Percona DB, JBoss),
- Cloud orchestration platforms (Openstack/Vmware/Kubernetes)
- DevOps DC automation (Ansible)
- Networking (specifically SDVPN and SDWAN related protocols like OpenFlow, eBGP, ...)
- DataCenter monitoring (Splunk)
- Performance engineering (related Java, linux hypervisors, ...)

### Mission

In an explorative manner, you touch upon any of the above technologies and evaluate how an expert system can contribute to automated problem detection.

### Key Responsibilities

After a lightweight analysis of your problem domain and subsequent selection of an opensource knowledge system, you will establish a prototype rule-based expert system that interfaces with components that are part of Nuage's Virtualized Services Platform (VSP) and technologies used by VSP.

Through partial data modeling of the problem domain and establishment of a rule base, you will experiment with the expert system as to get a first impression about the complexity and implications involved when applying an expert system on a DataCenters day-to-day operations

### Qualifications

- Enrolled student in Computer Engineering, Computer Science or similar
- Ability to work with or quickly acquire knowledge in any of the programming (C/C++ Java, Python, Go,...) and/or scripting languages (bash, ...), Db programming (MySQL).
- Being confidently programming language agnostic.

During the selection process, you will agree on your internship tasks, responsibilities and duration together with your future internship coach.

### Contact

For more info, pls contact [luc.vermoesen@nokia.com](mailto:luc.vermoesen@nokia.com)