

## **System Integration Engineer (M/F)**

**Location: Turin**

### **Main purpose of the internship**

The main goal of the internship is linked to the management of the satellite resources traffic, since they are intrinsically limited. Analysis of the real traffic statistics must suggest how to optimize the user experience taking into account business needs and traffic priorities.

The bandwidth optimization process shall consider the system design, studying the interaction of the various devices through which the traffic flows. Simulations of traffic flows are needed in order to predict the behaviour of different protocols for different classes of services. Also an improvement of the throughput monitoring shall be conducted prior the deployment of new traffic policies.

### **Requirements**

- Knowledge of communication networks and TCP/IP stack (MAC, IP, UDP, TCP);
- Good knowledge of internet protocols and applications (browsing, email, video, etc.);
- Good knowledge and experience of system modeling and simulation (through dedicated software like Matlab);
- Knowledge of scripting languages (Python, Shell, Bash, Perl);
- Knowledge of monitoring tools (i.e. Nagios) and log analysis (i.e. Splunk) is a plus;
- Good troubleshooting and problem solving skills;
- Good level of English.

#### **Skylogic S.p.A. Unipersonale**

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