

Job Description

Job Title	TLC System Engineer - Ground Segment
Business Line / Function	Products & Solutions (Communication Equipment)
Location <i>(site where this job is based)</i>	Rome
Reports to <i>(title of manager's job)</i>	Head of Communication Equipment
Mission of the Job	Contribute to design and development of ground communication equipment for satellite services, with particular focus on Internet-Of-Things (IOT) and Machine-to-Machine (M2M) applications.
Main activities <i>(list of the main activities to perform the job)</i>	<ul style="list-style-type: none"> • Provide support in the design of ad-hoc air-interfaces able to efficiently provide end-to-end communications in satellite M2M / IOT application scenarios. • Provide support in the design of suitable communication equipment at both base station and user terminal side. • Provide support for the development and maintenance of the SW tools able to simulate end-to-end telecommunication systems and derive the system performances at both physical and link layer levels. • Simulate the modem specific signal processing algorithms and contribute to the modem optimization aiming at best trade-off between complexity/costs and performances. • Support the HW implementation of the specified signal processing algorithms as well as test-benches development, system integration and test phase execution. • Contribute to the production of the relevant technical documentation in the frame of the various active projects.

Competences**Education/Training**

- Strong academic background in Communication Systems and Signal Processing.
- Knowledge of Satellite Communication System is also appreciated with understanding of SatCom ground segment architectures for broadcasting, broadband, trunking, backhauling and mobile applications.

Experience

- Expertise in some of the areas below would be appreciated:
 - communication protocols
 - quality of service aspects
 - upper layer techniques in IP and networking
 - Air interface techniques
 - SW Defined Radio (SDR)
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Tool or product requirements

- Good knowledge of Matlab/Simulink for communication system modelling.
- Good knowledge of general purpose object-oriented programming languages (e.g. C++).

Languages

Fluency in English is essential for the position.

Behaviours:

- Strong analytical skills and ability to communicate effectively.
- Creates and encourages effective two way communication.
- Team-worker whose working style is highly collaborative in nature.
- Promotes and demonstrates personal and professional development for self and others.