

Job Title: Internship - Satellite channel automation and testbench setup for O3b mPOWER

Req ID 8327 - Posted 10/24/2019 - Internship/trainee



About us: It's a great time to be part of the SES team

We are the world's leading satellite operator with over 70 satellites in two different orbits, Geostationary Orbit (GEO) and Medium Earth Orbit (MEO). We provide a diverse range of customers with global video distribution and data connectivity services through two business units: SES Video and SES Networks. Our global team works collaboratively to make a significant, and often life-changing difference in the world. As part of our team, you will play an integral part in delivering on our vision. At SES, we connect and enable broadcast, telecom, corporate and government customers, and enrich the lives of billions of people worldwide.

Internship - Satellite channel automation and testbench setup for O3b mPOWER Luxembourg - Betzdorf

Context

6-month internship, starting in March 2020

This is an exciting opportunity to become part of the SES Technology O3b mPOWER team working on MEO satellite constellation operational automation for Programmes Modem and Fleet Engineering team in a fast-paced, global organization within an innovative and unique industry.

Based in Betzdorf, Luxembourg, you will contribute to a crucial test setup to model Satellite channel impairments of non-geostationary satellite paths and test setup to emulate rainfades and atmospheric impairments.

Your responsibilities

- Setup a MEO orbit channel emulator environment
- Work in a high frequency lab environment and be responsible for an end-to-end test setup
- Review test plans for MEO satellite constellation automation and help define test procedures
- Support the definition and specification of the test plans and setup

- Define, specify and test options for a novel test setup with a MEO link channel emulator
- Define and build a lab test setup to emulate the satellite channel of a non-geostationary satellite link
- Design and setup the lab test setup of an end-to-end test setup

Your profile

- Being an advanced Master's student in electrical engineering, telecommunications, sciences or in a relevant technical or scientific area;
- Strong knowledge of high frequency technology, RF, lab measurement devices
- Excellent analytical and practical engineering judgment skills,
- Experience with oscilloscopes, spectrum analyzer, high frequency equipment;
- Ability to set priorities and to work under tight deadlines;
- Computer literate (MS PowerPoint, Excel, Access);
- Work independently as well as in a team;
- Easiness to communicate at all levels;
- Fluency in spoken and written English with additional languages considered an asset.
- EU nationality or work permit for Luxembourg.

What's in it for you?

- A diverse workplace. For SES, diversity is more than a question of gender or race; we welcome different minds and different skills.
- An exciting experience in a fast moving and fascinating industry. Our technology is launching into space on the next generation of rockets.
- The internship is remunerated. SES provides excellent sport facilities and a canteen on site.

Good to know

For more information on SES, [click here](#).

SES is an Equal Opportunity Employer and welcomes diversity!