Date: 01/02/2018

Job reference: 5721-en_GB-23313359

Type of contract: Internship
Localisation: Betzdorf - Luxembourg 6815, LU
Contract duration: From 4 to 6 months
Level of studies: Master's Degree

Company description:
We are the world-leading satellite operator and the first to deliver a differentiated and scalable GEO-MEO offering worldwide, with more than 50 satellites in Geostationary Earth Orbit (GEO) and 12 in Medium Earth Orbit (MEO). We focus on value-added, end-to-end solutions in two key business units: SES Video and SES Networks. The company provides satellite communications services to broadcasters, content and internet service providers, mobile and fixed network operators, governments and institutions.

Job description:
Context
4-month internship, starting in February / March 2018
This is an exciting opportunity to become part of the SES Engineering System Architecture and Innovation team in a fast-paced, global organization within an innovative and unique industry. Based in Betzdorf (Luxembourg), you will contribute to evaluate key system concepts through computer simulations.

Your responsibilities
Work on transmission techniques that can adapt dynamically to changing bandwidth and power allocations (SDRM transmission tests);
In a digital and microwave laboratory environment: Setup according to a defined configuration, an emulator of an advanced satellite channel test equipment to emulate fix and mobile satellite channels;
Make transmission tests using state-of-the-art satellite transmission equipment, DVB-S2X modulators and demodulators and dedicated satellite channel emulators;
Test different DVB-S2X receivers and perform performance evaluations of defined transmission scenarios;
Perform tests of different transmission and receiver equipment configurations and document performance;

Required profile:
Your profile
* Being an advanced degree student in electrical engineering, computer science or in a relevant technical or science area;
* Defined strong interest in microwave technology is an advantage;
* Experience and/or high interest to work autonomously in a microwave and digital lab environment and perform professional lab measurements;
* Execute a testplan and document methodically lab procedures and results;
* Ability to work autonomously on a dedicated laboratory project, set autonomously priorities and to work under tight deadlines;
* 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.

We offer 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.

SES is an equal opportunity employer and all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, disability status, protected veteran status, or any other characteristic protected by law.

To apply: https://apply.multiposting.fr/jobs/6591/23313359