SES IS HIRING A INTERNSHIP - COMPUTER SIMULATION OF SATELLITE TRANSMISSION FOR INTERNSHIP FROM 4 TO 6 MONTHS.

Date : 01/02/2018

Job reference : 5722-en_GB-23313408

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

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
6-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 the a test implementation of an evaluation of dynamic satellite transmission systems development (SDRM test implementation);
Implement in a computer simulation environment the dynamic behavior of an end-to-end communication link and optimize the resource allocation of the network;
Emulate the traffic source behavior and define a statistical demand model for the different nodes in a network simulation;
Analyze the impact of different adjustment of resources in the system to study the overall impact on the end-to-end system capacity and performance indicators;
Interact closely with System Architecture engineers to study different optimization options of the system study and evaluate the link optimization in details;
Test and verify through lab measurements the transmission techniques that adapt to changing resource allocation configurations (as required and possible)

Required profile :

Your profile
* Being an advanced degree student in electrical engineering, computer science or in a relevant technical or science area;
* Specialization areas or clear strong interest in one or several fields of signal processing, control theory, telecommunication, information theory area;
* Excellent knowledge of computer programming with a demonstrated knowledge in either of the programming languages: C++, PYTHON or other equivalent;
* Ability to work autonomously on a dedicated complex programming project, set autonomously priorities and to work under tight deadlines;
* Highly motivated, self-starter, eager to learn individual;
* 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/6591/23313408