

ASSISTANT ENGINEER IN ELECTRONICS

Position to be filled on September 1, 2018

Job Title: Electronic Engineer Assistant

Type of recruitment: CDI - Contract of indefinite duration

Corps or level of recruitment: Engineer Assistant

Salary range: 1412 to 1739 € / month net according to experience

Location (component / laboratory / postal address):

LEAT-Building Forum, SophiaTech campus, 930 route des Colles, 06903 Sophia Antipolis

RIFSEEP business code: Technical manager of platform and / or technical or common service or equipment

CONTEXT OF THE POSITION:

The Laboratory of Electronics, Antennas and Telecommunications (LEAT) is a Joint Unit between University Nice Sophia Antipolis (member of the University Côte d'Azur) and CNRS (UMR n° 7248). It is located on the SophiaTech campus which is a training and research center dedicated to Information and Communication Technologies (ICT), associating academic actors (UNS, INRIA, EURECOM, CNRS, Polytech 'Nice Sophia, Mines Paris Tech, etc.), competitiveness clusters, numerous associations and technological platforms (CIMPACA Design, Telecom). In partnership with the CNRS, french and foreign companies, agencies and public laboratories in the framework of numerous projects, contracts and collaborations, LEAT is developing its research organized in three teams, CMA (Design and Modeling of Antennas), MCSOC (Modeling, Design of Communicating Object Systems) and ISA (Microwave Imaging and Antenna Systems).

The scientific fields of the LEAT are:

- Antennas, electromagnetism and microwaves
- Communicating objects, Optimization of wireless networks, Embedded systems and Systems on Chip

Its areas of expertise are:

- Design of multi-standard and / or reconfigurable miniature antennas and multi-antenna systems
- Numerical modeling in electromagnetism
- Metrology around antennas and diffraction
- Radar systems, microwave imaging and inverse problems in electromagnetism
- System modeling and energy management in communicating objects
- Wireless networks and sensor systems
- Reconfigurable adaptive and cognitive systems

The laboratory currently has 69 members including 30 researchers, professors, associate professors, ... and 39 post-doctoral, doctoral, master students, ...

In the organization of the laboratory, the recruited person will be attached to the "Manufacturing and Measurement" division with a Engineer in charge of measurements. Its activity will be pooled for the three research themes of the unit. His assignments will lead him to take a very active role in the numerous projects in which the laboratory is involved to realize electronic cards, antennas or to prepare and participate in measurement campaigns. He will propose solutions to the requests submitted by PhD. students and researchers. He will also assist PhD. students and master students in the realization of printed antennas and electronic circuits. He will also be involved in the unit's interdisciplinary research activities with other laboratories such as Géoazur, LSBB and MATOS where he will bring his skills in electronics.

GENERAL MISSION:

The electronic assistant ensures the development and realization of all or part of electronic devices until the final tests. It also maintains these devices. He assists research teams in the definition, design and implementation of the electronics part of the projects.

MAIN ACTIVITIES:

- o Realize and test electronic cards (FPGAs, micro-controllers, integrated circuits)
- o Perform instrumentation interfacing, integrating piloting and acquisition systems and software
- o Realize the routing of electronic boards, the implementation of components on electronic boards and antennas
- o Assemble electronic cards
- o Fabricate printed circuits and antennas
- o Perform tests of realized antennas and circuits
- o Realize test equipment and structure test procedures
- o Apply and enforce safety and hygiene rules
- o Prepare and carry out measurement campaigns inside and outside the laboratory
- o Operate and develop the PCB manufacturing laboratory
- o Have an advisory role for students and researchers on the realization technology to implement
- o Provide first level maintenance of the laboratory's electronic and computer equipment
- o Participate in various tasks on an ad hoc basis (material recovery, installation, ...)

REQUIRED PROFILE:

- o Degree and number of years of experience on the same type of position:

Bachelor degree (i.e. DUT or BTS Electronics or equivalent, ...)

- o Skills:

- Master the use of electronic measuring instruments (oscilloscope, analyzer, generator ...).
- Know how to use CAD software and routing software; use and manage a component library.
- Know how to use the programmable components like microprocessors, FPGA ...
- Know and apply the rules of electromagnetic compatibility.
- Know how to use interface and input-output cards for acquisition systems.
- Use a programming language (Assembler, C, Labview, ...).
- Know how to ensure a technological watch in the field of activity
- English: oral and written comprehension: Level 2; speaking and writing: Level 1

FURTHER INFORMATION:

Due to some confidential researches, the access to the Laboratory requires the authorization of the University Senior Defense Security Officer (USDSO). So, the successful candidate will be definitively recruited if the USDSO validates the recruitment.

HOW TO CANDIDATE?

Send your CV and a Letter of Motivation to Mr. Robert STARAJ, Robert.STARAJ@unice.fr with copy to recrutement@unice.fr