

JOB DESCRIPTION

Date of update: March 27, 2020

Job title: Head of Electronics and Physics department

Location : Palaiseau (with regular trips to Evry) - FRANCE

Entity / Service: Télécom SudParis / Electronics and Physics department

Position of supervisor: Telecom SudParis Director

Category and job title within IMT management framework: I-A, permanent position

The function of department director is a 4-year renewable assignment

ABOUT TELECOM SUDPARIS

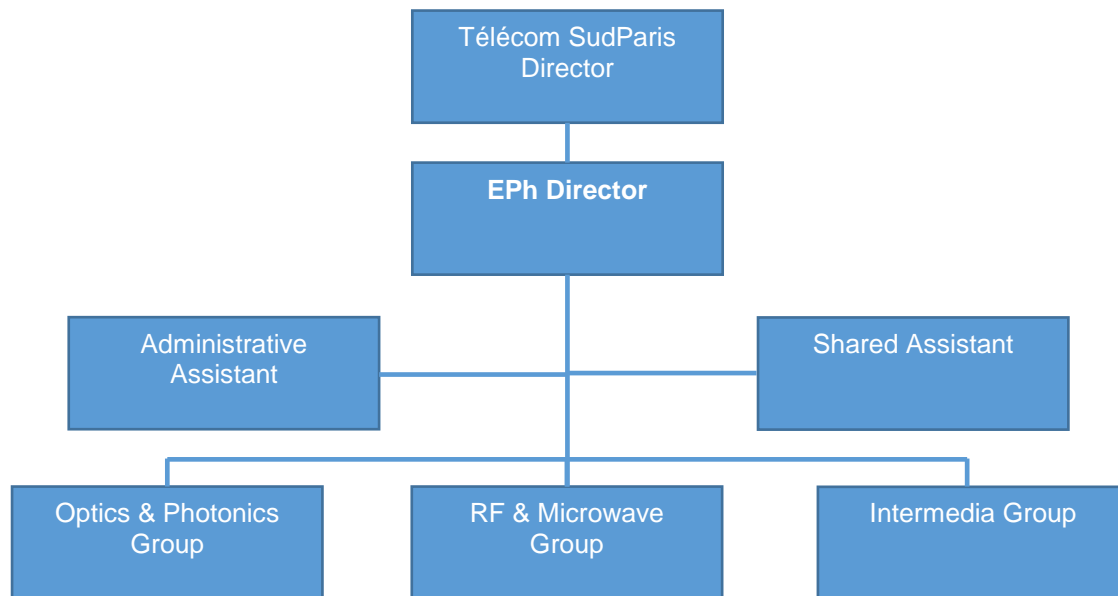
Telecom SudParis is a public graduate school for engineering, which has been recognized on the highest level in the domain of digital technology. The quality of its courses is founded on the scientific excellence of its faculty and on teaching techniques that emphasize project management, innovation and intercultural understanding. Telecom SudParis is part of the Institut Mines-Telecom (IMT), the number one group of engineering schools in France, under the supervision of the Ministry for Industry. Telecom SudParis with Ecole Polytechnique, ENSTA Paris, ENSAE Paris and Telecom Paris are co-founders of the Institut Polytechnique de Paris, an institute of Science and Technology with an international vocation.

Its assets include: a personalized course, varied opportunities, the no.3 incubator in France, an ICT research center, an international campus shared with Institut Mines-Telecom Business School and over 60 student societies and clubs.

JOB ENVIRONMENT

The Electronics and Physics Department (EPH) is one of the 6 teaching and research departments of Telecom SudParis (TSP).

The head of the department is a member of the management committee and contributes to the governance of the school in various bodies. He / She is a member of the ICE (Information, Communication, Electronics) disciplinary community board of the Institut Polytechnique de Paris (IP Paris).



EPh department is organized around three groups which bring together academic staff in the following areas :

Optics & Photonics Group : *Information transport, Data processing and advanced optical imaging*
 Photonic technologies; Very high-speed fiber-optic transmission systems; Functionalities for flexible (flex-rate, flex-grid, ...) and energy-efficient optical architectures; Photonics for data processing (reservoir computing); Machine learning for optical communications ; Photonic sensors and non-conventional optical imaging

Radio & Microwave Group :

Recovery of energy from radio-frequency waves for the power supply of low consumption connected devices; Navigation and positioning systems in constrained environments; Detection of navigation spoofing of UAVs; 3D direction finding approaches of UWB mono-static radar for indoor positioning; Software Defined Radio (SDR) for spectrum management and for performing signal processing functions or for formatting signals.

Intermedia Group : Digital health and biometrics

Cognitive and behavioural neurosciences; Analysis of electroencephalographic signals, speech and gesture / handwriting for early detection of neuro-degenerative diseases; Remote healthcare and home monitoring ; Biometric identification and crypto-biometrics

The department's academic members of staff are involved in TIPIC and ARMEDIA teams of the SAMOVAR laboratory (<https://samovar.telecom-sudparis.eu/>). Most of them primarily belong to the ICE disciplinary community of IP Paris, the others primarily belong to the IDIA (Computer Sciences, Data and Artificial Intelligence).

ASSIGNMENTS :

In connection with the school management, the disciplinary communities of IP Paris concerning the department, and group leaders, he/she

- contributes to the implementation of scientific policies of the Institut Mines-Telecom and Institut Polytechnique de Paris and participates in the school's strategic objectives.
- defines the scientific priorities of the department by ensuring the right balance between research and teaching activities
- defines, in concertation with the department's teacher-researchers and in accordance with the priorities of SAMOVAR laboratory, the job profiles for his/her department and provides the drafting of job descriptions

In conjunction with the research and doctoral training directorate and innovation and corporate relations one, he/she

- supports the set-up of the research programs of the department and supervises the progress of their implementation
- supervises the dissemination (publications, communications, ...) and valorization (IP, patents, technology transfert, ...) of research results of department
- conducts research activities in his/her relevant fields
- can represent the school in research and valorization governance bodies

In concert with graduate studies direction and those in charge of the pedagogical fields, he/she

- contributes, through the appropriate bodies, to the specification and evolution of training programs
- facilitates the provision of required resources (human and material) for the successful implementation of training programs
- contributes to the smooth running of training audits involving the department
- contributes to teaching activities in the school training programs

In concert with the human resources directorate and in accordance with the framework of staff management of the Institut Mines-Telecom, he/she

- leads the department's exchange and information meetings
- manages the permanent and non-permanent staff of the department (hiring, arrivals, departures, missions, holidays, etc)
- conducts the annual performance interviews of the department's teacher-researchers and administrative staff.
- supports the career development of the department's staff with the assistance of dean of the teacher-researchers, and proposes bonuses and individual salary increases
- ensures the recruitment of the staff of the department (dissemination of the call for applications, preselection of candidates for the recruitment committee)
- ensures the proper integration of newcomers (permanent and non-permanent)

In liaison with the General Secretariat and the directorates concerned, he/she

- draws up the previsional budget for his/her department and ensures its proper implementation
- contributes to the development of premises according to department and school projects
- ensures the proper functioning of the equipment and the healthiness of the premises of the department
- ensures the reporting of the department's indicators
- contributes to the outreach of the school, the Institut Mines-Telecom and the Institut Polytechnique de Paris

TRAINING & SKILLS:

Level of training and experience required:

- PhD and HDR (french Habilitation à Diriger des Recherches) or international equivalent level
- professional experience greater than or equal to 10 years

Required skills, knowledge and experience:

- knowledge of the higher education and research environment
- confirmed experience in higher education and academic and/or industrial research, attested by both significant and quality production and participation and management of collaborative projects (european, national, industrial)
- ability to teach and conduct research activities in one of department's fields
- strong managerial skills in the academic or industrial environment

Required abilities :

- recognized expertise by the national and international research communities
- excellent relationship skills : ability to listen and dialogue
- fluency in french and english languages
- availability
- rigour and organisational skills

TO APPLY:

Please send before 4th May 2020

- a motivation letter
- a resume
- a work notice about past and future activities in teaching and research (the 2 types of activity must be described with the same care for rigor and precision)
- a list of the main publications
- the name and email address of two qualified personalities who can give an informed opinion on the nomination

- recrutements@imtbs-tsp.eu

or

- Télécom SudParis - HRD - 9 rue Charles Fourier - 91000 EVRY - FRANCE

Web Site: <https://www.telecom-sudparis.eu/>

Information of the candidate on the processing of personal data: <https://bit.ly/2QeOZhl>