



Tenured Assistant/Associate Professor in Artificial Intelligence and Computer Vision for Biomedical Imaging

Location Télécom Paris, Palaiseau, France

Deadline March 25th, 2022

Description Telecom Paris, a CS/EE school of IPParis, is hiring a tenured Assistant/Associate Professor in the domain of artificial intelligence and computer vision for biomedical image processing and understanding. The applicant will integrate the [IMAGES team](#), within the Image, Data and Signal Department ([IDS](#)) of the Information Processing and Communication Laboratory ([LTCI](#)). The team is involved in theoretical, methodological, and applied research in the domain of mathematics, computer vision, artificial intelligence, and computer graphics.

Outstanding applicants in all areas of artificial intelligence for biomedical imaging will be considered.

Possible research areas include:

- Deep learning for image reconstruction and analysis
- Statistical models for fusion of multi-modal data (i.e., imaging, clinical, genetic, etc.)
- Domain adaptation, Transfer learning, Self-supervised learning
- Generative machine/deep learning models
- Shape analysis and geometric statistics
- Medical knowledge representation and reasoning
- Association of symbolic and statistical machine/deep learning
- Federated learning

Expertise The applicant is expected to have competences and skills in the domain of biomedical imaging, computer vision and artificial intelligence with a strong background in applied mathematics and/or computer sciences. The applicant should also show pedagogical skills and be able to teach on deep/machine learning and image processing. The candidate must also be capable and interested in facilitating and creating new cross-disciplinary interactions within the LTCI laboratory, across the schools of IPParis and with external collaborators from the industry, hospitals, biological labs, etc.

Required qualifications The applicant must have a PhD, an outstanding academic record and excellent proficiency in spoken and written English.

Preferred qualifications Teaching experience, post-doctoral or international experience in an academic or industrial laboratory, grant applications experience, capability and interest in mentoring graduate and PhD students. If the candidate does not speak French, he/she must commit to obtaining a professional proficiency in French as quickly as possible while under contract.

Context Télécom Paris is one of the top four Engineering Grandes Ecoles in France and it is considered the best engineering school for digital technology. It has close ties with both international academic laboratories and industry. Télécom Paris is a founding member of Institut Polytechnique de Paris (IPParis) and an IMT (Institut Mines-Télécom) school. Both institutions offer several funding for internships, PhDs and post-docs. Télécom Paris provides a competitive salary, travel and research support, complementary health insurance (even if not necessary in France) and other benefits.

Responsibilities and Duties

- Applicant should conduct research in his/her scientific field, publish his/her research findings in internationally renowned journals and conferences, create interactions with the other faculty members of the school and associated institutions and supervise Master and PhD students.
- Applicant should apply for national and international grants, participate in the development of partnerships, collaborations, and contractual agreements in their scientific field with academic and industrial partners.
- Applicant should participate in the design, implementation and supervision of courses, practical sessions, and student projects for last year undergraduate students and graduate students in collaboration with the other faculty members.

Application Instructions Applicants should upload the required documents as a single pdf here: <https://institutminestelecom.recruitee.com/l/en/o/enseignantchercheur-en-intelligence-artificielle-et-vision-par-ordinateur-pour-limagerie-biomedicale-fh-a-telecom-paris-cdi/c/new>

Required documents

1. Cover letter,
2. Curriculum vitae,
3. Description of previous research and teaching activity (max 4 pages)
4. A research and teaching project (max 5 pages)
5. Three publications
6. Contact information of two people for recommendation/endorsement letters. The Hiring Committee will contact them before the interview.

Contact information For more information, please contact: Pietro Gori (pietro.gori@telecom-paris.fr) and Yann Gousseau (yann.gousseau@telecom-paris.fr)

Selection procedure The selection will proceed in four steps:

- Selection of the applications that satisfy the required qualifications
- Interview by the host team and selection of a first short-list
- Interview by the Hiring Committee, selection and ranking of the final short-list
- Interview by the dean of Télécom Paris