



**IMT Atlantique**

Bretagne-Pays de la Loire  
École Mines-Télécom

**JOB ADVERTISEMENT**

**IMT ATLANTIQUE**

**is recruiting a tenured Assistant Professor in Deep Learning**

**Brest campus**

**<http://www.imt-atlantique.fr>**

**Start date: December 2020**

*Keywords: Deep Learning, Machine Learning, Neural Networks*

*Administrative status: Associate/Assistant Professor/Senior lecturer, civil servant of the French Ministry of Economy and Industry)*

**Presentation of the school**

IMT Atlantique, internationally recognized for the quality of its research, is a leading general engineering school under the aegis of the Ministry of Industry and Digital Technology, ranked in the 3 main international rankings (THE, SHANGAI, QS).

Situated on 3 campuses, Brest, Nantes and Rennes, IMT Atlantique aims to combine digital technology and energy to transform society and industry through training, research and innovation. It aims to be the leading French higher education and research institution in this field on an international scale. With 290 researchers and permanent lecturers, 1000 publications and 18 M€ of contracts, it supervises 2300 students each year and its training courses are based on cutting-edge research carried out within 6 joint research units: GEPEA, IRISA, LATIM, LABSTICC, LS2N and SUBATECH.

**Presentation of the scientific field**

The Electronics Department of IMT Atlantique is offering a position for a tenured assistant professor in the domain of Deep Learning.

More precisely, the Electronics Department hosts a growing team working on deep learning and machine learning, with specific interests on signal processing for computer vision, neuroimaging, sound and natural language processing. Main contributions include processing of graph-supported inputs, few-shot learning, compression of deep learning architectures, and more fundamental aspects of machine learning related to robustness, interpretability and explainability. These axes of research are conducted in collaboration with prestigious universities worldwide (USC, McGill, University of Montréal, University of Rochester, University of Adelaide...) and research contracts with private partners.

In this context, the Electronics Department is looking for a candidate who identifies itself as a specialist in the field of deep learning, and who is willing to contribute to the establishment of a research team on this subject. This research team will be hosted in the "Information Processing and Transmission, Algorithms and Integration" (T2I3) scientific pole of the Lab-STICC. A profile that could complement the existing research activities (including digital communications, neuroimaging, efficient implementations...) would be favored.

Being ranked as one of the best universities in France, IMT Atlantique provides teaching at the highest level. In this context, the candidate will be asked to participate in the establishment of courses dedicated to deep learning and its applications.

IMT Atlantique Bretagne-Pays de la Loire - [www.imt-atlantique.fr](http://www.imt-atlantique.fr)

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**In this context, to join our teams**

You will have strong skills in the following fields: Machine Learning, Signal Processing or Statistics.

In the department, as a research lecturer, you will fulfil the main rôles of training, research and development in academic and industrial circles, as well as internationally.

Your scientific skills and your experience in project management will enable you to develop and participate in partnerships with partners from the economic and academic world, at regional, national and international levels.

You will contribute to the development and influence of the school through high-level publications, a proactive attitude to contract negotiation and an active contribution to the life of the school.

Your significant experience in designing and supervising teaching activities will allow you to promote learning by confronting learners with multidisciplinary problems. You are particularly interested in the competency-based approach, innovative teaching methods and the diversification of assessment methods.

Your command of English is strong enough to teach in this language.

You are really dynamic and know how to develop synergies and manage projects in training and research in a multidisciplinary environment.

Sensitive to the challenges of sustainable development and social responsibility, you act in an ethical and responsible manner and have demonstrated that these dimensions are taken into account in the projects you have carried out.

The post is based on the Brest campus. Travel in France and abroad is to be expected.

You will be asked to submit an integration project for all the tasks described to demonstrate your motivation for the job.

(for more information on the selection criteria, consult the job description of a lecturer-researcher – Associate Professor, Assistant Professor/Senior Lecturer/ on the school website)

**Level of training and/or experience required:**

- Doctorate in the field of Machine Learning, Computer Science, Signal Processing or Statistics
- Official from a body recruited through the École Polytechnique or the ENA or former student of an École Normale Supérieure with professional experience > 3 years
- Highly qualified company executive with professional experience > 8 years

**To submit your application:**

To submit your application send an email to [recrut20-mc-elec@imt-atlantique.fr](mailto:recrut20-mc-elec@imt-atlantique.fr)

Deadline for applications: **September 20th, 2020**

Date of Recruitment committee: **October, 2020**

Recruitment: **December 2020**