



ACADEMIC POSITION AT INSTITUT MINES-TELECOM

LECTURER / ASSISTANT-PROFESSOR

**DISCIPLINE : VOLATIL ORGANIC COMPOUNDS IN AMBIENT AIR****AFFILIATION** : Ecole Nationale Supérieure Mines-Télécom Lille Douai (IMT Lille Douai)

Created by the merger of Mines Douai and Telecom Lille on January 1st, 2017, IMT Lille Douai is one of the largest graduate schools of engineering, north of Paris. It aims at training engineers and scientists of the future, with both industrial expertise and strong skills in digital technologies. Strategically located at the crossroad of Europe, one hour from Paris, one hour and a half from London and thirty minutes from Brussels, IMT Lille Douai intends to become a major player in industrial, digital and environmental transformations of the 21st century. Therefore, our school is building bridges between education, research, engineering and digital science.

Public establishment belonging to IMT (Institut Mines-Télécom), placed under the supervision of the Ministry of Industry, IMT Lille Douai has three main objectives: providing our students with ethically responsible engineering practice enabling them to solve 21st century issues, carrying out our R&D activities leading to outstanding innovations and supporting territorial development through innovation and entrepreneurship.

Located on two main campuses dedicated to research and education in Douai and Lille, IMT Lille Douai offers research facilities of almost 20,000m<sup>2</sup> in the following areas:

- Digital science
- Processes for industry and services
- Energy and Environment
- Process and Materials engineering applied to polymers, composites and civil engineering

IMT Lille Douai aims at strengthening its Energy and Environment Centre research both in education and training but also at developing cross-cutting research activities with the other Innovation and Research Centers (CERI) of our school. The central axes of the department are based on the study of physicochemical processes of generation and transformation of gaseous and particulate pollutants and study of their human and environmental impact.

The selection committee will pay specific attention to cross-cutting proposals allowing the connection between the different Centres. For more information, see: [www.imt-lille-douai.fr](http://www.imt-lille-douai.fr)

The required missions of the successful lecturer / assistant professor position candidate are described below.

**MISSIONS:**

Under the guidance of the Head of Energy and Environment Centre, the successful candidate will actively contribute to the teaching and research efforts of the Centre:

**Teaching Missions and responsibilities**

- significant contribution to the delivery of teaching programs (courses, tutorials, practical works) of undergraduate and graduate students in his/her field of expertise : environmental sciences, general chemistry and / or engineering processes) but also in common core courses. Some lectures can be given in English.
- develop and participate in the development of future innovative training methods/techniques (MOOC, inverted classroom...)

- participate in pedagogical supervision (projects, internships, competition juries). Experience in monitoring internships would be very much appreciated.

### **Research and technology-transfer Missions**

- Develop and conduct research projects that are aligned with IMT research focus areas to achieve success in attracting and securing public and private research funding.
- Work effectively with other academics and supervise master/PhD students and post-docs in one or several of the core business of the Research and Innovation Center : Volatile Organic Compounds (VOCs) of ambient air, observation of reactive trace gases, characterization of VOCs concentrations and their interpretation.
- initiate cross-cutting research activities to build bridges with other IMTLD innovation and research centers and remain in synch with the areas of excellence of our school and of the Institut Mines-Télécom.
- Prepare the French diploma Accreditation to Supervise Research (“Habilitation à Diriger des Recherches (HDR)” in French).
- implement contractual research and incentive actions and facilitate knowledge transfer in partnership with economic actors.
- promote the department’s activities and ensure its thematic development while enhancing the links with our research and innovation centers.
- undertake a scientific watch.
- participate to the activities of regional, national and international scientific groups, and organize scientific events.
- produce high quality scientific outputs : peer-review papers, patents, etc.

### **REQUIRED PROFILE :**

The successful candidate must have strong scientific background and technical skills, allowing her/him to carry out the aforementioned missions.

### **She/He should :**

- have solid scientific and technological background and significant experience in atmospheric physical chemistry of the atmosphere and in particular concerning in-situ observation of VOCs in ambient air. In particular, expertise in chromatography and spectrometry is expected. Knowledge in advanced statistical analysis will be appreciated. Foreign experience related to this field is highly recommended.
- have very good communication and teamwork skills.
- strong teaching experience is mandatory.
- have a good command of English (oral and written) and show negotiation and communication skills, to:
  - demonstrate a marked integration into the international community.
  - justify linguistic and cultural abilities to develop international training and research projects.
  - deliver online internet courses (MOOCS in French and English).

The candidate must hold a PhD degree in environmental chemistry and/or air quality characterization. This position is open to a candidate interested in teaching and research oriented towards industrial and societal issues. Work experience of post-doctoral research and of project management will be highly appreciated and

substantial record of research output in high quality outlets, will be highly desirable. The candidate should show cultural awareness and an aptitude for multi-disciplinary projects.

The administrative residence is located in Douai but teaching delivering will be done in both main locations.

**GENERAL INFORMATION :**

The required document and for applying for this position can be obtained by contacting **Human Resources Department** ([serviceconcoursdrh@imt-lille-douai.fr](mailto:serviceconcoursdrh@imt-lille-douai.fr) - Tél : +33 (0)3.27.71.25.36) :

Ecole Nationale Supérieure Mines-Télécom Lille Douai (IMT Lille Douai) - Direction des Ressources Humaines  
Site de Douai - 941, rue Charles Bourseul - CS 10838 - 59508 DOUAI Cedex - France

Deadline date for submissions : 30/04/2020.

Eligibility Conditions : European Nationality Holders (European Union) at the candidature submission date and possessed of a PhD degree.

**FOR MORE INFORMATION ABOUT THE MISSIONS, CONTACT :**

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