ACADEMIC POSITION AT INSTITUT MINES-TELECOM - IMT LILLE DOUAI
ASSISTANT-PROFESSOR IN ENERGY ENGINEERING

DISCIPLINE: ENERGY ENGINEERING

AFFILIATION : IMT Lille Douai (Ecole Nationale Supérieure Mines-Télécom Lille Douai)

IMT Lille Douai represents one of the largest French engineering schools in the north of France. The **Mines-Telecom Institute** (IMT) includes 11 engineering schools with a total of 13400 students (including 1500 PhD students), and a research contract turnover of 100M€. For more information, see : www.imt-lille-douai.fr

The Energy Engineering Department of IMT Lille Douai is looking for an assistant professor within its main scientific area: Energy engineering sciences of thermofluid systems and components. The Energy Engineering Department have: 7 assistant/associate professors, 1 engineer, 1 secretary, 6 PhD students and 1 PostDoc.

In particular, the research areas of interest are heat transfer enhancement in heat exchangers and multifunctional exchanger-reactors, as well as systems involving thermal energy. Both, numerical and experimental approaches are developed internally within the department following appropriate methodologies and tools, such as inverse methods and advanced optimization techniques. The main objectives are to characterize and quantify conjugate heat transfer phenomena with detailed analysis of the physical mechanisms involved in complex geometrical configurations.

The missions required by the successful assistant-professor candidate are:

MISSIONS :

Under the guidance and responsibility of the Head of the Energy Engineering Department, the successful candidate should conduct the following research and teaching missions/activities:

- **Teaching Missions and responsibilities**:
  - Participate, by assisting the educational directors, in setting up and organizing new courses (undergraduate and graduate, master levels)
  - Participate in the training of engineering undergraduate students in her/his area of specialty, some courses may be given in English,
  - Develop and participate in the development of future innovative training/teaching methods/techniques,

  The successful candidate must possess a good background (theory and practice) in energy, fluid dynamics and heat transfer sciences, which will enable her/him to get involved at different levels of the teaching courses.

- **Research and technology-transfer Missions:**

  The main research mission of the successful candidate is to strengthen the present team of researchers by developing physical modelling methods by means of experimental and/or numerical approaches within the scientific themes presented hereunder.
  She/he will :
  - Initiate, conduct research projects and co-supervise PhD students in the field of energy engineering and energy efficiency in various domains such as in industrial processes, buildings and/or the city, or transport domain,
  - Publish her/his research work: publications in peer review journal, patents, and conferences
  - Develop research and technology transfer actions with industrial partners,
  - Develop and help in developing the Department's research themes,
  - Participate in the activities of regional and/or international scientific groups, and organize scientific events,
  - Prepare the French diploma “Habilitation à Diriger des Recherches (HDR)”

REQUIRED PROFILE :

The successful candidate must have a strong scientific background and technical skills, allowing her/him to carry out the aforementioned missions. The main skill required by the research team is the expert use or the development of thermal system modelling methods allowing to characterize and optimize thermo-fluidic systems globally.. It is also appreciated if she/he has strong experience in the use/development of experimental methods in thermal-fluid mechanics and in the use of CFD numerical simulation tools.
She/He should have:
- very good communication and teamwork skills,
- a taste for teaching with real teaching abilities,
- a good level of the English language (oral and written), in order 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 English), etc

This job position would be suitable for candidates interested in teaching and research partnerships, holding a PhD degree in the fields of Energy Sciences, Process Engineering or Fluid Mechanics. Postdoctoral and project management experience are also desired. The administrative residence is fixed at Douai city in the north of France.

GENERAL INFORMATION :

The required document and for applying for this position can be obtained by contacting :
Sandra ANDRZEJEWSKI (Tel : +33 3.27.71.25.36 – sandra.andrzejewski@imt-lille-douai.fr) at the :
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 submisisons : 30 April 2018.
Eligibility Conditions : European Nationality Holders (European Union) at the candidature submission date.

FOR MORE INFORMATION ABOUT THE MISSIONS, CONTACT :

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