PART-TIME ACADEMIC POSITION
FACULTY OF APPLIED SCIENCES
FIELD: “ADVANCED MECHANICAL DESIGN”
START DATE: 01/09/2024

The University of Liège is the biggest French-speaking public university in Belgium. It employs more than 5,700 staff members across four campuses, including 3,600 active teachers and researchers in all fields of the human and social sciences, science and technology, and health sciences. In hosts nearly 27,000 students of 123 different nationalities in one of the most multicultural and dynamic cities in Europe, less than an hour from Brussels and Cologne, two hours from Paris, and three hours from London and Amsterdam. Actively involved in the social and environmental transition, ULiège supports students to fulfil their roles as responsible citizens (training in sustainable development, Green Office, etc.) and promotes ethical, multidisciplinary and open research. ULiège is committed to the region in which it operates and contributes towards local socio-economic development. It has developed numerous partnerships, notably with the university hospital. International and united, it participates in the European University of Post-Industrial Cities, UNIC initiative and has one of the most extensive collaborative networks in the world. ULiège offers attractive career prospects in a high-quality working environment, promoting well-being, diversity and equality of opportunity. Since 2011, ULiège has been proud to display the European Human resources strategy for researchers (HRS4R) label, which reflects its commitment to open, transparent and merit-based procedures. In addition, it recognises the quality and diversity of research in line with the recommendations of the Coalition for Advancing Research Assessment (CoARA). ULiège encourages its academic staff to travel internationally and welcomes international researchers through its EURAXESS centre.

JOB DESCRIPTION

A part-time academic position (5%), indivisible position, in the field of “Advanced Mechanical Design” within the Department of Aerospace & Mechanical Engineering (A&M) of the Faculty of Applied Sciences. This load essentially includes teaching activities aimed at developing students’ skills in relation to current practices and approaches in the business world.

TEACHING ACTIVITIES

The goal of this position is to complete the training of students in the field of “Advanced Mechanical Design”, through the course "Advanced Mechanical Design", which represents a volume of 5 ECTS (30 hours of theory and 15 hours of practical work) within the "APRIXXXX Integrated Mechanical Project“ teaching unit. This course is intended for students of the Master in Mechanical Engineering.

The precise content of the course will be determined by the candidate in collaboration with the other teachers of the APRIXXXX teaching unit, but a proposed table of contents could include the following topics: system approach to mechanical design, pre-sizing tools, mechanical assemblies, brakes, clutches, couplings, fatigue and service life calculation, calculation of forces in a transmission chain under transient conditions, lubrication, metrology. The presentation of these subjects should be in line with the evolution of the practice in the sector, particularly in terms of modelling and computation tools (3D modelling, digital simulation, optimisation, etc) and technologies (new materials, additive manufacturing, digitalisation, etc).

The candidate will base his or her teaching on practical experiences and will feed it with real cases illustrating the solutions and approaches implemented within companies.
The candidate will also participate in the supervision of internships and Master theses in his/her field of research.

**RESEARCH ACTIVITIES**

At the holder discretion and according to opportunities.

**SERVICES TO THE COMMUNITY**

At the holder discretion and according to opportunities.

**QUALIFICATIONS REQUIRED / PROFILE**

- A strong industrial expertise and experience in the required field;
- Facility in speaking English

**SELECTION PROCEDURE**

Applications will be pre-selected on the basis of the candidate’s file by a selection committee created by the Faculty of Applied Sciences. Successful candidates will then be invited to an audition that will include a sample lesson, a presentation of their research project and a general discussion with the selection committee.

In line with the University of Liège’s institutional policy of diversity and equal opportunity, applicants are selected on the basis of their qualities, regardless of age, sexual orientation, origin, beliefs, disability or nationality.

**APPLICATIONS**

To be eligible, applications must be submitted via the online form available on the website [https://my.uliege.be/portal/go_xt.do?r=0%7C11004%7Ce%7C568697](https://my.uliege.be/portal/go_xt.do?r=0%7C11004%7Ce%7C568697). Complete applications must be submitted no later than 15/02/2024 (before midnight Belgian time). Late applications may be refused.

**DOCUMENTS REQUIRED**

The following documents, written in French or English, must be provided in electronic format (pdf) in support of the application:

- Motivation letter
- Curriculum vitae
- A copy of diplomas and certificates
- A teaching project presenting the way in which the candidate intends to transmit his or her professional expertise and experience in his or her teaching, highlighting the opportunities for developing collaborations between the academic and industrial worlds as required by the application.

**CONDITIONS OF EMPLOYMENT**

The position is awarded for an initial period of 3 years, renewable.
INFORMATION

A detailed description of the academic position and work environment is available on the faculty website.

Any information concerning academic activities can be obtained from the Professor Olivier BRULS – Phone: +32 (0)4 366 91 84 – Olivier.Bruls@uliege.be.

Additional information may be obtained from: Ms Aurélie LECCA, Administrative Director of the Faculty of Applied Sciences – Phone: +32 (0)4 366 94 68 – Aurelie.Lecca@uliege.be.

REMUNERATION

The salary grids and their rules of application are available from the Human Resources department of the University: Ms Ludivine DEPAS – Phone: +32 (0)4 366 52 04 – Ludivine.Depas@uliege.be.

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