PERMANENT FULL-TIME SCIENTIFIC POSITION

FACULTY OF APPLIED SCIENCES

FIELD: “VISUALIZATION TECHNIQUES FOR CHEMICAL ENGINEERING AND MATERIALS CHARACTERIZATION”

START DATE: 01/10/2024

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

The job of research logistician in the field of "Visualization techniques for chemical engineering and materials characterization" within the Research Unit of Chemical Engineering of the Faculty of Applied Science.

Many measurement techniques used in UR Chemical Engineering, and generally in process engineering (chemical, pharmaceutical, biotechnology) and materials science, but also for example in the fields of soil science, mechanics fluids and medical imaging, are based on the acquisition or reconstruction of digital images. The range of applications and spatial scales involved is very wide: from, for example, fuel cells to urban or industrial sewage sludge, including microfluidic systems or model human or animal organs, for applications, and from the nanometer to a few tens of centimeters for scales. The techniques make it possible in particular to characterize flows, mixing and distribution of phases in homogeneous, but above all heterogeneous media.

RESEARCH ACTIVITIES

- Support, using visualization techniques, for applied research projects in process engineering and materials science carried out within the dpt/UR or outside as part of academic or industrial collaborations and services;
- Scientific management of activities linked to advanced visualization techniques available within the UR with a view to optimal exploitation of the equipment (development of measurement protocols, processing and exploitation of data and modeling linked to the intended application) and a diversification of research and consultancy activities;
- Equipment maintenance and investment planning, including contribution to the drafting of projects related to the use, renewal or expansion of the UR equipment;
- Organization and administrative management of activities, including the management of internal and external financial flows.

TEACHING ACTIVITIES

Integration of visualization equipments, corresponding data and models into teaching (mainly lectures in the second cycle, master theses and doctoral theses).

COMMUNITY SERVICE ACTIVITIES.

Promotion of teaching (visit to facilities, production of educational posters and presentations).

QUALIFICATIONS REQUIRED / PROFILE

- Hold a PhD in Engineering Sciences or equivalent;
- Be an expert in the field of acquisition, processing and exploitation of digital images: X-ray or electrical tomography, visualization by optical or laser technique,....;
- International experience is an advantage.

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.

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 https://my.uliege.be/portail/go_xt.do?a=o%7C11004%7Ce%7C568812. 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
- Two letters of recommendation;
- A document detailing the candidate's skills and experience in relation to the assignments to be carried out.
CONDITIONS OF EMPLOYMENT

The position is awarded either for a fixed term of four years, which may lead to a permanent appointment after an evaluation, or immediately on a permanent basis.

INFORMATION

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

Any information can be obtained from the Professor Stéphanie LAMBERT – Phone: +32 (0)4 366 47 71 – stephanie.lambert@uliege.be.

Additional information may be obtained from: Ms Aurélie LECCA, Administrative Director of the Faculty of Applied Sciences – tel.: +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 – tel.: +32 (0)4 366 52 04 – Ludivine.Depas@uliege.be

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