FULL-TIME ACADEMIC POSITION
FACULTY OF APPLIED SCIENCES
FIELD: “RESILIENCE IN CIVIL ENGINEERING”
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 full-time academic position, indivisible position, in the field of “Resilience in civil engineering” within the Department of Architectural, Geogical, Environmental and Civil Engineering (ArgEnCo) of the Faculty of Applied Sciences. This position includes teaching and research activities as well as services to the community.

This academic position will focus on one or several aspects of resilience in civil engineering. This broad domain is currently receiving of lot of attention with the increased exposure of infrastructures and cities to catastrophic events that can be either caused by natural or man-made phenomena, such as fires, earthquakes, hurricanes, floods, terrorist attacks, wars, nuclear accidents or power outages.

It also presents excellent opportunities for cross-disciplinary academic collaborations with colleagues performing research in steel, composite, concrete structures, structural dynamics, building information modelling, structural retrofitting, urban planning or mobility, in the Urban and Environmental Research Unit or the Mechanical Engineering department. To allow for possible experimental research, outstanding facilities are available in the Fire Engineering Laboratory, the Lab for Mechanics of Materials and Structures, and the Lab for Construction Materials.

TEACHING ACTIVITIES

The skills of the future teacher (M/F/X) could naturally and usefully be expressed in some of the following courses:

- GCIV2037 – Analyse des structures (Structural mechanics)
- GCIV0646 – Conception et exécution des bâtiments (Conceptual design and construction methods of buildings)
The extensive list illustrates the variety of courses to which the candidate will have the opportunity to contribute, together with current faculty members. His/her actual teaching duties will include only a selection of courses from this list, depending on his/her profile and expertise. The candidate may also propose to develop other specific teaching(s) exploiting synergies with his/her specific research.

He/She will also participate in the supervision of internships and graduate work in his/her field of research.

The teaching load may not exceed 250 hours per year (including practical work and seminars).

RESEARCH ACTIVITIES

The successful candidate (M/F/X) will develop research in the field of “Resilience in civil engineering” and supervise doctoral research work in this field.

Resilience can be defined as the ability of a system (a building, a town, a country) to absorb changes and disturbances in the environment and to maintain system functionality.

In this context, several important areas of research are foreseen to contribute to this topic. This call is deliberately broad to welcome applications in any of these areas.

As a possible field of specialization, structural fire engineering is seen as a growing field of research with rapid development of probabilistic approaches, performance-based design and the study of resilience to urban fires, studying the consequences of fires after extreme events that may affect large areas, communications, structures, transportation systems.

Research on resilience can also include topics such as decision making in the hours after extreme events to protect the public and recover the functioning of the urban systems.

SERVICES TO THE COMMUNITY

Candidate will participate in service activities to ensure the outreach of the activities developed within the ArGEnCo department. He/She will:

- Ensure the valorization of his/her work within research networks, companies and public institutions active in his/her field of expertise,
- Contribute to the smooth running of the Department, the Faculty of Applied Sciences and the University of Liège through its various bodies.

QUALIFICATIONS REQUIRED / PROFILE

- Hold a PhD with thesis in a field directly related to the expected research activities;
- Have international research experience and publications in established journals;
- Be able to teach in 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/portail/go_xt.do?a=o%7C11004%7Ce%7C568700 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 list of the 5 main publications and a description of their contribution to the state of the art
- A report on previous and current research activities, as well as a research project, including the envisaged insertion within the University of Liège
- A teaching dossier including a report on any previous teaching activities and a teaching project

CONDITIONS OF EMPLOYMENT

The position is awarded either for a fixed term of four years, or immediately on a permanent basis.

If a fixed term contract is awarded, an evaluation will be carried out at the end of the third year. If the evaluation is negative, the appointment will be terminated at the end of the four-year period. If the evaluation is positive, the appointment becomes permanent.

INFORMATION

A detailed description of the academic position and of the research and teaching environment are available on the faculty website

Information about academic activities can be obtained from the Department Chair, Prof. Vincent DENOËL – Phone: +32 (0)4 366 29 30 – V.Denoel@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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