PART-TIME ACADEMIC POSITION
FACULTY OF APPLIED SCIENCES
FIELD: “SPACE SYSTEMS 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 fulfill 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 (50%), indivisible position, in the field of “Space systems engineering” within the Department of Aerospace & Mechanical Engineering (A&M) of the Faculty of Applied Sciences. This position includes teaching and research activities as well as services to the community.

TEACHING ACTIVITIES

As an example, the skills of the future teacher (M/F/X) could naturally and usefully be expressed in the following courses of the Master in Aerospace Engineering:

- APRIXXXX Space design project (10 ECTS)
- AEROXXXX Thermal analysis in space systems (5 ECTS)

Both courses are new and will be organised for the first time during the academic year 2024-2025. They will be offered within the “Space engineering” thematic of the Master programme. The integrated “Space design project” may benefit from a new “Concurrent Design Facility (CDF)” infrastructure currently being developed at the University.

Candidates may also propose to develop 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 125 hours per year (including practical work and seminars).

RESEARCH ACTIVITIES

The successful candidate (M/F/X) will develop research in the field of "Space systems engineering" and supervise doctoral research work in this field. In particular, the activities will target the following research themes.

- Integrated opto-thermo-mechanical approaches for the design of space instruments and the optimisation of their performances.
- Applications to innovative projects such as the miniaturisation of optical payloads, smallsat missions, space interferometry and polarimetry, the development of ultraviolet, visible and infrared payloads, free-form optics, straylight analysis and additive manufacturing. The development and/or the use of multi-physics engineering tools integrating optical, thermal and mechanical analyses may also be addressed.

SERVICES TO THE COMMUNITY

Candidate will participate in service activities to ensure the outreach of the activities developed within the A&M 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,
- Reinforce the collaborations between the Faculty of Applied Sciences, the Centre Spatial de Liège (CSL), the Faculty of Sciences and other stakeholders for the development of teaching and research activities in space systems engineering,
- 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%7C568714 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 Liege;
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 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 – O.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 Ludvine DEPAS – Phone: +32 (0)4 366 52 04 – Ludvine.Depas@uliege.be

Date of publication: 20/12/2023