LIÈGE université

JOB REFERENCE: PA260506

FULL-TIME ACADEMIC POSITION

SCHOOL OF ENGINEERING AND COMPUTER SCIENCE

FIELD: SEPARATION AND PURIFICATION PROCESS ENGINEERING

START DATE: 01/09/2026

The University of Liège is the largest 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. It 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, in the field of "separation and purification process engineering" within the Department of Chemical Engineering. This position includes teaching and research activities as well as services to the community.

TEACHING ACTIVITIES

The position holder (M/F/X) will teach courses in the field of separation and purification process engineering and, more generally, participate in teaching activities organized by the Chemical Engineering Department.

By way of example, the skills of the future position holder (M/F/X) could naturally and usefully be expressed in the following courses:

- CHIM0022-4 Transport phenomena
- CHIM9297-1 Bachelor project
- CHIM9299-1 Physical unit operations I
- CHIM9300-1 Physical unit operations II
- PROJ0012-1 Integrated project

The position holder (M/F/X) may also propose to develop specific teaching(s) exploiting synergies with his/her specific research or with that of other departments (see for example course GEOL1043-1 Extractive metallurgy). GBIO0033 - Advances in silico medicine (5 ECTS)

The incumbent (M/F/X) will also participate in supervising internships and final projects in their field of research.

The teaching load will not exceed 250 hours per year (including any practical work and seminars under the responsibility of the teacher).

RESEARCH ACTIVITIES

The position holder (M/F/X) will develop research in the field of "Separation and purification process engineering" and supervise doctoral research in this area.

The necessary transition to sustainability presents the industrial sector with numerous challenges throughout the life cycle of the products developed. In particular, processes need to be developed that enable secondary materials to be reused or recycled. These secondary materials (mineral or organic) can include waste and residues from production processes and products that have been recovered at the end of their useful life (plastics, deconstruction waste, metals, glass, paper, etc.). At the same time, the energy transition and the associated responses (electrification, development of renewable energies, etc.) require increasing recourse to critical raw materials. Advanced recycling and separation methods are needed to recover these raw materials at the end-of-life of "technological" products, and to free ourselves from some of our current dependence on these raw materials.

In this context, this project will focus on the experimental development and modeling of high-performance separation techniques that can be used on an industrial process scale, for applications linked to the environmental and energy transition. This involves identifying the specific aspects of each operation and theorizing the limiting physico-chemical processes (thermodynamics, hydrodynamics, material and heat transfers, etc.), in order to produce predictive models that can be used for extrapolation. It is therefore based on a thorough understanding of transport phenomena in relation to unitary physical operations in the process industry.

The research activities associated with this position will be complementary, i.e. either downstream in the process development chain, or in a more general context, to those developed within the Chemical Engineering Research Unit (UR), the UR UEE (in particular the GEMME group) and the UR CESAM (in particular the GREENMAT laboratory). The incumbent of the "Separation and purification process engineering" position will be the main contact for researchers in these two groups, who are developing technologies dedicated to specific products, with a view to generalizing them to other products and scaling them up to industrial scale. These activities are part of a sector that is highly dynamic, with a number of structuring project portfolios in Wallonia, linked to the European Green Deal, and aimed at increasing circularity and reducing the environmental footprint of industry (HECO2, REMIND, Reverse Metallurgy +, etc.).

The experimental and technical resources (CARPOR-VISU platform, experimental hall, pilot units, acquisition and regulation devices, analysis techniques) and skills available within UR Chemical Engineering provide the ideal environment for developing research in this field.

SERVICES TO THE COMMUNITY

The post-holder (M/F/X) will participate in service activities that promote the activities developed within the School of Engineering and Computer Science. The successful candidate will be required to:

- Ensure that their work is promoted within research networks, companies, public institutions, and various organizations active in their field of expertise.
- Contribute to the smooth running of the Department, the School of Engineering and Computer Science, and the University of Liège through its various bodies.

QUALIFICATIONS REQUIRED / PROFILE

- Hold a PhD in engineering sciences and technology or equivalent;
- Have international research experience and publications in reputable international journals and conferences;
- Be able to teach in English. La capacité d'enseigner en français sera un atout.

SELECTION PROCEDURE

Candidates will be shortlisted on the basis of their applications by a selection committee set up by the School of Engineering and Computer Science. Successful candidates will then be invited to an audition, which 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

Applications should be made using the online form available on the following website: https://my.uliege.be/portail/go_xt.do?a=o%7C11004%7Ce%7C638768. To be eligible, applications must be submitted **no later than 15 february 2026 (before midnight Belgian time).**

DOCUMENTS REQUIRED

- Cover letter.
- Curriculum vitae.
- Copies of diplomas and certificates.
- A report on previous and current research activities, including a list of the 5 main publications and a description of their contribution to the state of the art.
- A research project on the activities the candidate wishes to develop, including the planned integration within the University of Liège and the Chemical Engineering department.
- A teaching portfolio including a report on any previous teaching activities and a teaching proposal describing the candidates' views on teaching methods and topics related to the position.
- The names and contact details of three international experts from whom recommendations can be obtained by the selection committee.

These documents must be uploaded in PDF format to the online application platform (see link in the "APPLICATIONS" section).

CONDITIONS OF EMPLOYMENT

The position is awarded either for a fixed term of four years, or, in certain exceptional circumstances, 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 person's appointment will end after the fourth year.
- If the evaluation is positive, the person will be appointed permanently.

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 **Angélique LEONARD** – tel.: +32 (0)4 366 44 36 – a.leonard@uliege.be

Additional information may be obtained from: **Ms Aurélie LECCA,** Administrative Director of the School of Engineering and Computer Science – tel.: +32 (0)4 366 94 68 – Aurelie.Lecca@uliege.be

REMUNERATION

Basic appointments are made at the grade of lecturer.

The **gross** monthly salary at the start of the scale (**on a full-time basis**) is currently €5,992.58, to which is added an end of year allowance (in December) and a holiday allowance (in June).

In exception circumstances, the Faculty may submit a substantiated application to obtain a higher grade in the salary scale (length-of-service bonus).

The career of full-time teaching staff includes the grades of lecturer, professor, and full professor. Career development (after the recruitment grade) is possible through the promotions' procedure, the terms and conditions of which are defined by the Board of Directors.

Please contact the Human Resources department for further information on careers, salary scales, and the terms and conditions of their application: **Ms Valérie MELOTTE** – Val.melotte@uliege.be

BENEFITS

- "Statutory" position which can lead to a public sector pension if the appointment is permanent.
- Financial contribution to private relocation expenses.
- Possibility of assistance with access to the labour market for partners.
- University of Liège professional relocation allowance of €2,500 for a full-time position.
- Start-up budget for research activities of €15k.
- Integration within the Chemical Engineering Department, benefiting from the corresponding local services.
- Initial and ongoing teaching training provided by the Institut de Formation et de Recherche en Enseignement (IFRES).
- Wide range of training courses available.
- Welcome seminar and introduction to the bodies and operations of the Université of Liège (two-and-a-half days in September).
- Meal vouchers with a face value of €5 per working day.
- Full refund of public transport costs between the home and the workplace.
- Flat-rate payment for travel by bicycle.
- Call for proposals for the allocation of teaching and research credits.
- Help with setting up research projects.
- Preferential rate for registration for a ULiège course, also applicable to children.
- Possibility of preferential conditions for taking out private insurance.
- Preferential rates and reductions in a wide range of fields - shops, leisure, culture, training, sport, etc. (Benefits at Work).

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