

FULL-TIME ACADEMIC POSITION

SCHOOL OF ENGINEERING AND COMPUTER SCIENCE

FIELD: BIOMECHANICAL 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 “Biomechanical Engineering” within the Department of Aerospace & Mechanical Engineering (A&M) of the School of Engineering and Computer Science. This position includes teaching and research activities as well as services to the community.

TEACHING ACTIVITIES

The appointed candidate (M/F/X) will teach courses in the field of biomedical engineering and, more generally, will take part in the teaching activities organized by the Department.

The future holder of the position will be involved in courses in the biomedical engineering domain both at the Bachelor’s and Master’s levels. At the Bachelor’s level the focus will be on introducing the basic concepts of biomedical engineering and their application to biological/biomedical systems. Teaching at the Master’s level will involve the application of engineering concepts and tools in the broad fields of biomechanics, medicine, and life sciences.

More specifically, the following courses, currently part of the program, would be directly related to the expected teaching load:

- ▶ GBIO0001 - Biophysics and Biochemistry (5 ECTS),
- ▶ GBIO0011 - Modeling of Biological Systems (5 ECTS),
- ▶ GBIO0021 - Laboratory Projects (5 ECTS),
- ▶ GBIO0027 - Medical Device Design Projects (10 ECTS).

The appointed candidate will also develop new courses/topics related to biomedical engineering based on his/her specific expertise and research direction. This will be done within the framework of existing courses as well as by proposing new courses, such as:

- ▶ GBIO0033 - Advances in silico medicine (5 ECTS)
- ▶ Computational biomechanics (new course)
- ▶ Biomechanics of soft tissues (new course)

The future holder of the position will also participate in supervising internships and master thesis 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 instructor).

RESEARCH ACTIVITIES

The appointed candidate will develop high-level research activity in the field of computational or experimental biomechanics, proposing a research focus complementary to the biomechanics activities already existing within the A&M Department (which include: biomechanics of hard tissues, biomechanics of soft tissue–bone interfaces, movement biomechanics). The new position shall therefore be oriented toward one or more of the following research areas:

- **Multiscale characterization of soft tissues**, aiming to link mechanical properties at the molecular, cellular, and organ levels.
- **Mechanobiology and tissue adaptation**: study of the influence of mechanical stresses on the growth, remodeling, repair, and degeneration of tissues.
- **In silico medicine**: direct application of computational models (individualized or individualizable) to support the prevention, prediction, screening, diagnosis, and treatment of diseases at various spatial and temporal scales, ranging from individual cells to tissues, organs, and full physiological systems.
- **Computational modeling and simulation**: development of constitutive laws, finite-element models, and AI-based approaches to predict tissue behavior under physiological and pathological conditions.
- **Biomechanics of trauma and rehabilitation**: modeling and analysis of injury mechanisms and recovery processes.
- **Medical and clinical applications**: biomechanics-guided design of prostheses, implants, and surgical tools; personalized modeling for diagnosis, treatment planning, and precision medicine.
- **Tissue engineering and regenerative medicine**: integration of biomechanical principles into the design of scaffolds, organoids, and artificial tissues.
- **Mechanics of cardiovascular and neural tissues**: analysis of the mechanical behavior of blood vessels, heart valves, and neural tissues in normal and pathological conditions.
- **Transport phenomena** in biological tissues and biofluid flows.

A strong integration with the research activities carried out within the A&M Department is expected, as well as the strengthening of partnerships with the Faculty of Medicine, the GIGA (interdisciplinary biomedical research institute of the University of Liège), the CHU (university hospital), research centers, and companies involved in developing advanced numerical tools for biomechanical and biomedical applications.

SERVICES TO THE COMMUNITY

The holder of the position will take part in service activities aimed at promoting the work carried out within the School of Engineering and Computer Science. The selected candidate will be required to:

- ▶ Ensure the dissemination and valorization of their work within their research networks, companies, public institutions, and the various organizations active in their field of expertise;
- ▶ Contribute to the proper functioning of the Department, the School of Engineering and Computer Science, and the University through its various governing 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. The ability to teach in French will be an asset.

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%7C640627. To be eligible, applications must be submitted **no later than 1st march 2026 (before midnight Belgian time)**.

DOCUMENTS REQUIRED

- ▶ Cover letter.
- ▶ Curriculum vitae.
- ▶ Copies of diplomas and certificates.
- ▶ A report (max. 3 pages) on previous and current research activities, including a list of the 5 main publications and a description of his/her contribution to the state of the art.
- ▶ A research statement (max. 3 pages) describing the activities that the candidate wishes to develop, including their planned integration within the University of Liège, the Faculty of Applied Science, and the Department of Aerospace and Mechanics.
- ▶ A teaching statement (max. 3 pages) including a report on any previous teaching activities and a teaching project describing the candidate's views on teaching methods and topics related to the position.
- ▶ The names and contact details of three international experts from whom the selection committee can obtain recommendations.

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 **Vincent TERRAPON** – tel.: +32 (0)4 366 92 68 – Vincent.Terrapon@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 A&M 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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