Vacant academic post in the field of General and Systems Physiology.

**Start date:** 01/10/2019

**Offer reference:** FMV 1228

**General context:**

The physiology unit is part of the Department of Functional Science. Over the past few years, this unit has developed considerably, both in terms of teaching and research and in service to the community.

The physiology courses are composed of four teaching units (TU) relating to general and systems physiology, two of which are taught in the second year of the bachelor’s degree and two in the third. The unit also participates in TU focusing on sports medicine taught in the third year of the master’s degree and in the advanced master’s degree.

In general, teaching is based on a functional, clinical and transversal approach to physiology, by using new and innovative technologies (especially digital, e.g. ICT) in pedagogical terms. There is regular contact and collaborations between lecturers in physiology, those teaching other core subjects (histology, nutrition, etc.) and with clinical colleagues. In addition, the physiology of reproduction is taught by the professor of Obstetrics and Pathology of Reproduction. These collaborative approaches provide a coherence between the acquisition of notions of the basic sciences and the clinical approach that will be taught in the following years.

During the bachelor’s degree, special emphasis is placed on the quality and quantity of practical work and tutorials, during which students are invited to actively participate in their training. Free activities such as monitoring reproduction in female rabbits, guinea pigs and ewes, are also offered.

As regards research, several study options are available:
- physiopathology, diagnosis and treatment of chronic respiratory diseases in racehorses;
- diagnosis and mechanisms of muscle disorders (myopathy) in racehorses, in collaboration with Dr. Dominique Votion;
- effects of exercise and training on a physiological, physiopathological and transcriptomical level;
- cellular and molecular mechanisms responsible for infectious and inflammatory diseases regarding the lungs and the intestines, in order to improve the treatment and prevention of these conditions, in collaboration with Prof. Fabrice Bureau and Dr. Thomas Marichal (GIGA) and their team of scientists;
- endometrial inflammation in mares, under the guidance of Prof. Stefan Deleuze.

Regarding services to the community, equine sports medicine consultations are offered to the equine sector, thanks to the leading-edge equipment, knowledge and know-how acquired by the unit. Approximately 180 cases are currently referred to the Sports Medicine Centre every year. It welcomes third-year master’s interns in equine medicine and internal medicine residents, within the framework of these consultations.
An activity focusing on sporting dogs is currently being developed, in collaboration with the pet clinic and nutrition department.

Description of the teaching post:

An indivisible **full-time post**, in the field of **general and systems physiology**, attached to the **Department of Functional Science**. This post includes teaching and research activities, and services to the community.

The course load is composed of one part of 62 hours of theory classes, 8 hours of practical work and 10 hours of tutorials for undergraduate students in veterinary medicine within the framework of teaching units dedicated to the physiology of domestic animals. It is crucial that the nature of the courses in question are closely linked to the curriculum's focus, i.e. the daily application of a scientific and medical approach and, in particular, a clinical approach for the large majority of future graduates. These teaching units will be organised together with Prof. Tatiana Art.

As regards teaching, the faculty insists that the following points of attention be respected:

- absolute maintenance of practical work with recourse to non-invasive examinations of living domestic animals or case scenarios of clinical examinations typical of a non-specialised general veterinary practice;
- lectures, practical work and tutorials are systematically closely linked to the veterinary curriculum's three focuses, i.e. the scientific approach, the medical approach and the clinical consultation;
- active and continuous adherence to a transversal approach (i) to courses, especially in physiology, biochemistry, embryology, anatomy and histology at bachelor level and (ii) integration with learning activities, especially in semiology, internal medicine and pharmacology.

In terms of research, the new teacher will be asked to:

- redeploy a research laboratory in animal and comparative physiology, physically located at the Faculty of Veterinary Medicine site;
- cultivate the ability to make proposals, operational conduct and scientific publications in themes including resolutely veterinary research subjects at a level comparable to physiology units in the most highly ranked veterinary medicine faculties on an international level.

Qualifications: the applicant must have:

- knowledge, know-how and general technical skills in the field of veterinary medicine, duly validated by the grade of veterinary doctor or an equivalent grade awarded within the EU;
- knowledge, know-how, technical skills and personal experience in a research theme that falls within the scope of life sciences, duly validated by a doctorate/PhD;
- personal experience in scientific publication validated by at least five scientific articles as first or last author, published in English in international journals with a specialised peer-review process.
Selective criteria:

If there are several eligible applicants, the Committee suggests ranking them according to the scores obtained for each of the following six criteria:

✓ the level of pedagogical excellence and ability to popularise, confirmed by previous experience and the delivery of a public lecture, both validated by a formal assessment;
✓ the level to which the pedagogical project is closely linked to the veterinary curriculum's three focuses (scientific approach, medical approach and clinical consultation);
✓ the level of transversality shown in the pedagogical project, both between physiologists and between basic disciplines and medical disciplines;
✓ the level of scientific excellence, confirmed by the international bibliometric indicators weighted by seniority and sector of activity;
✓ the project's level of scientific and operational credibility (raising funds, etc.) to deploy a research laboratory in animal physiology on the faculty's site and to compete with other animal physiology laboratories worldwide;
✓ having acted as a doctoral advisor (with at least one thesis already successfully defended) and/or being able to show proof of scientific experience acquired abroad.

Additional criteria:

✓ the level of development of creativity, autonomy, entrepreneurial spirit and ability to communicate and adapt;
✓ the level of interpersonal skills (ability to interact, forge and maintain a professional network, work in a team, be respected);
✓ a sense of common interest;
✓ knowledge, know-how and technical skills in exercise physiology confirmed by a formal assessment.

Applications:

Applicants must send their application by recorded delivery, to the Rector of the University of Liège, Place du 20 Août, 7, B-4000 Liège, by 31 May 2019 at the latest.

An electronic version of the application form can also be sent to the following e-mail address: doyen.fmv@uliege.

Documents required:

✓ An application form together with a copy of a full curriculum vitae;
✓ A copy of the publications (electronic version);
✓ A summary of how the applicant would implement the entrusted courses, as well as a research project relating to the call's theme (maximum four pages).
Terms of appointment:

Academic posts are allocated either immediately on a permanent basis, or for a fixed term of four years, which may lead to a permanent appointment.

In the case of a four-year appointment, the person concerned will be assessed at the end of the third year.

- If the outcome of the assessment is negative, the person concerned shall complete their four-year term with no possibility of an extension.
- If the outcome of the assessment is positive, the person concerned will be appointed on a permanent basis.

Information:

All additional information on the post can be obtained from Professor Tatiana Art, President of the Faculty of Veterinary Medicine - tel.: +32 4 366 40 55 – Tatiana.Art@uliege.be

Salary:

The scales and the terms of their application are available from the university's human resources department: Mme Ludivine DEPAS – tel.: +32 4 366 52 04 – Ludivine.Depas@uliege.be