Academic vacancy in the field of

Process Control and Quality of Biosourced Products in a context of Digital Transition

**Start date:** 01/09/2020

**Vacancy Reference:** GxABT2020-1

Description of the course load:

A full-time, indivisible position in the field of process control and quality of biosourced products in a context of digital transition, within Gembloux Agro-Bio Tech. This includes teaching, research and service to the Community.

The proposed post will aim to teach and develop innovative integrated approaches to meet the demands of business and society as a whole.

**Teaching activities:**
The teaching load will include, in the first year, a set of courses corresponding to about ten credits. This load will include:

- on the one hand, bioengineering Master’s courses (mainly chemistry and bio-industries and agronomic sciences) in the fields of hygiene, health safety and food industrial logistics,
- and on the other, Bachelor’s courses in engineering sciences with a focus on bio-engineering in the fields of the chemistry of equilibria, agricultural and food technology and quality management.

The chemistry of equilibria course will be given in French to approximately 300 first year Bachelor’s students.

Most of the courses will be taught collegially with other faculty members.

The course load will gradually increase in the coming years, reaching a total of around 15 credits by 2023 at the latest.

The teaching load will also include supervision activities within the Master’s programme (group projects, supervision of final dissertation, internships) and original initiatives taken by the candidate.

**Research Activities:**
The successful applicant will conduct research in the field of processes and quality applied to bio-based products. They will contribute to the development of relevant models relating to the control of unit operations, processes and production lines, by integrating quality control on food products, in its various constituent forms. Predictive models of the evolution of product characteristics during storage may also be considered.
This person will contribute to the development of innovative integrated approaches to meet the demands of the food industry and society in general, taking into account process control and the quality of food products. The candidate will have recognised expertise in bioengineering and food science and technology. They will also have to be able to integrate the digital transition into automated monitoring and control of production lines. They will continue to explore new technological solutions that can be transposed to the agri-food sector.

They will propose a personal research project allowing the deployment of their expertise within GxABT, closely aligned with the CAREs partners, in particular the FoodIsLife CARE

Community-related activities:
The candidate will be involved in services to the community provided by the Gembloux Agro-Bio Tech Faculty and the University of Liège and, beyond that, in services to society, in partnership with management.

Qualifications required:

- Must hold a first degree in agronomic engineering (or bioengineering) or a Master’s degree and a doctoral research degree with experience in the relevant field.
- Must demonstrate recognised scientific experience, both in the field and through international publications in the relevant field (a minimum of six months’ scientific residence abroad is an advantage)
- Must provide evidence of teaching experience
- Must demonstrate the ability to work on interdisciplinary themes
- Be able to work in a team and with shared human and material resources within the GxABT structures, and to manage technical staff
- Be available for a variety of different roles relating to services to the community and public education.
- Be fluent in English and French
- Being available for missions abroad
- Subscribe to the general quality objectives developed by the institution and the faculty
- Upon appointment, must sign an agreement on the ownership of research results

Selection procedure:

Each candidate’s application will be examined by a faculty committee in charge of selecting the candidates to be interviewed, giving reasons for its decisions with regard to this vacancy announcement and the qualifications and merits of the candidates. The Faculty Committee shall interview the candidates, in particular concerning their curriculum vitae, their teaching, research and integration plans for the Institution and their command of English. The interview shall include a “public lesson”, which shall be organised by the Faculty committee.

Applications:

Candidates are requested to send their applications electronically to the following address: Postesacademiques@uliege.be with a copy to the GxABT Deanship - decanat.gembloux@uliege.be by 30/03/2020 at the latest.
Required documents:

- a complete curriculum vitae;
- A cover letter setting out the candidate’s personal aspirations with regard to the proposed position;
- A report on past and current research activities and a research plan, including the envisaged integration within the University of Liège;
- A teaching dossier including a report on any previous teaching activities and a teaching plan;
- A complete list of the candidate’s publications and a copy of the five publications they consider to be most significant in relation to the area in question.

Conditions of recruitment:

The position shall be assigned either from the outset on a permanent basis or for a fixed term of four years, which may lead to the permanent appointment of the person concerned.

In the case of a four-year appointment, an evaluation of the person concerned will be carried out at the end of the third year.

- If the evaluation is negative, the person concerned will complete the four-year term but will not be able to extend it.
- If the assessment is positive, the person concerned shall be appointed on a permanent basis.

Information:

Further information can be obtained from Professor Frédéric Francis, Dean of the Faculty (doyen.gembloux@uliege.be)

Salary scales and application procedures are available from the human resources department of the University: Ms Ludivine Depas - tel: +32 4 366 52 04 – Ludivine.Depas@uliege.be