

FULL-TIME RESEARCH AND TEACHING ASSISTANT POSITION

IN PHYSICS AND MATHEMATICS

BRUSSELS SCHOOL OF ENGINEERING

Reference : 2025/S118

Application deadline: 28/04/2025

Start date : 01/10/2025

Job Description

Located in the heart of Europe, the Brussels School of Engineering offers a multicultural, friendly, and green working environment. In partnership with the School of Bioengineering, it offers no less than three bachelor's degrees and 11 master's degrees. Each year, it trains more than 200 civil engineers and bioengineers capable of playing an active, responsible, and critical role in a changing world. Engaged at the local, regional, and international levels, the School actively contributes to the progress and well-being of society through high-level applied and fundamental research.

Teaching

The candidate will be involved in the courses PHYS-H101 (BA1 Bioengineer) and TRAN-H100 (BA1 Civil Engineer and Civil Engineer Architect).

- 1) Supervision (**in French**) of exercise sessions on introduction to applied sciences for first-year bachelor's students in engineering sciences, with a civil engineering orientation (course TRAN-H100: Introduction aux sciences appliquées, taught by Prof. Dimitri Gilis).
- 2) Supervision (**in French**) of general physics exercises and laboratory sessions for first-year bachelor's students in bioengineering sciences (course PHYS-H101: Connaissances fondamentales et éléments de physique, taught by Prof. Fabrizio Pucci).
- 3) Coordination of the teaching team for PHYS-H101 and TRAN-H100.
- 4) Preparation and correction of written exams.
- 5) Improvement of teaching materials.

Research

Completion of a PhD thesis (in engineering sciences and technology, or in agronomic sciences and biological engineering) in one of the following topics:

- Mathematical modeling of biological systems
- Artificial intelligence methods in biomolecular design
- Interpretation of genomic variants in rare or complex diseases

For more information about our research areas, please visit:

<https://3bio.polytech.ulb.be/en/bioinfo/thesis-and-intership-subjects>

Skills required

Required education level

Master's degree in physics, bioengineering or civil engineering.

Teaching

Strong knowledge of physics concepts and their application in solving exercises and conducting laboratory work; pedagogical skills adapted to BA1 students; teamwork; organizational skills, proficiency in French.

Research

Good knowledge in mathematical modeling (stochastic or ordinary differential equations) applied to biological systems and good skills in computer programming.

Courses covered

PHYS-H101 : Connaissances fondamentales et éléments de physique

TRAN-H100 : Introduction aux sciences appliquées

Interested ?

For more information, please contact Mr Fabrizio Pucci or Mr. Dimitri Gilis (E-mail: Fabrizio.Pucci@ulb.be, Dimitri.Gilis@ulb.be).

Your application will consist of a Curriculum Vitae (*if you wish, a standard CV can be downloaded from the website: <https://www.ulb.be/fr/documents-officiels/emplois-academiques-et-scientifiques-cv-type>*) and a document completed using the template available at this URL address <https://www.ulb.be/fr/documents-officiels/4e-applic-form-assistant-docx>.

This template structures your application by including the following elements:

- an application letter
- a note on the applicant's PhD research project (4 pages)
- two letters of reference

Incomplete applications or applications that do not use the template provided will not be examined by the selection committee.

Where to go to apply?

Click here: <https://jobs.ulb.be/job-invite/1610/?isInternalUser=true>

For any connection problems or questions about our application, consult our FAQ : [e-recrut-mode-d-emploi-candidat-en- 1734942996246-pdf](#)

Equal opportunities policy

ULB's personnel management policy is geared towards diversity and equal opportunities.

We recruit candidates on the basis of their skills, irrespective of age, gender, sexual orientation, origin, nationality, beliefs, disability, etc.

Would you like to be provided with reasonable accommodation in the selection procedure because of a disability, disorder, or illness? Please contact Marie Botty, the person in charge of diversity aspects for the academic and scientific staff (marie.botty@ulb.be). Be assured of the confidentiality of this information.

More details on the ULB gender and diversity policy are available at <https://www.ulb.be/en/about-ulb/gender-equality-at-ulb>.

You will find all the regulations relating to research careers on our site at <http://www.ulb.ac.be/emploi/academique.html>.