FULL-TIME ACADEMIC POSITION IN CELLULAR AND MOLECULAR BIOLOGY

FACULTY OF MEDICINE

Reference: 2021/A017
Deadline for nominations: 31/12/2020
Scheduled to start: 01/10/2021

Job description

The Free University of Brussels is recruiting a high-level teacher-researcher in the full-time academic staff of the Faculty of Medicine as of 1st October 2021. The teachings associated with the position are in the field of cellular and molecular biology and are intended for bachelor students in Medical, Biomedical and Veterinary Sciences.

Research area: Research activities will need to be in the biomedical field.

Educational and scientific objectives:

1. Educational goals:
At the end of the course, the learner will be able to describe the structure of the main organelles of an eukaryotic cell. It will also be able to list and describe the different functions of each of these organelles and cite the gene and protein classes involved in these functions and their respective roles. It will be able to establish the functional link between certain genetic alterations, the cellular mechanisms impacted and the pathological consequences for the body.

Cell and molecular biology are 2 defined learning activities in this course unit.
The teacher will have to work on identifying possible redundancies in the courses.

Content:
- Cell biology:
  - Cell biology techniques and organisms models - Biological membranes and cell compartments - Sorting and protein traffic - The cytoskeleton - Cell division - Extracellular matrix and intercellular contacts - Mitochondria - Developmental Cell Biology Elements.

- Molecular biology:
Tumorigenesis:
Receptor families and signaling cascades - Cell Cycle Control - Molecular Mechanisms of Apoptosis - Molecular Bases of Oncogenesis - Tumor Progression – Oncogenes and Tumor Suppressor Genes - Stem Cells, Angiogenesis and Tumor Microenvironment - Targeted Therapeutics.

2. Scientific objectives:
The candidate must hold a doctoral thesis. He/she will be able to promote a list of high-level publications in a field of biomedical sciences. He/she will preferably be able to demonstrate his or her ability to obtain research credits competitively from selective organizations.

The University’s Faculty of Medicine, located on the Erasmus campus on the southern edge of Brussels, brings together various research groups active in various fields of medical and biomedical sciences (cancer, neuroscience, stem cells, development, diabetes, metabolism, immunology, microbiology, cardiovascular physiology and reproduction...). The activities of these groups can be accessed from the University’s website [http://cychercheurs.ulb.ac.be/Site/repertoire.php]. The campus also has various technology platforms in genomics, cell sorting, confocal microscopy and transgenesis, as well as a pet shop.

The selected candidate will need to develop his or her research activities within one of the research laboratories of the Erasmus Campus, so that the environment best corresponds to the planned research project. Pre-screening of candidates with the laboratories concerned is strongly advised.

Course taken back into the charge at the time of recruitment:

- **BIOL-G2201** (48h Th) - Cell and Molecular Biology (MEDI)
  Mandatory bloc 2

- **BMOL-G-2207** (20h Th) - Pathological Biochemistry - partim Tumorigenesis (MEDI)
  Mandatory bloc 2

**Title required**

PhD in Medical Sciences, Veterinary Sciences, Biomedical Sciences or Biological Sciences or equivalent.

**Skills required**

- Applicants should have at least 4 years of research experience at the time of their recruitment.
- Post-doctoral experience and an excellent scientific record are a plus.
- Exchange periods outside of the applicants’ home institution (during or after their PhD) will be taken into consideration when evaluating applications.
- Organizational and team management skills: the candidate must demonstrate strong motivation and be able to demonstrate his/her ability to teach and lead a research team.
- Internationally recognized experience in the proposed research area
- Experience in coaching Master’s students, doctoral thesis as well as postdoctoral researchers
- Ability to recruit funding from competitive sources
- If you are not fluent in the French language (level C1), you may be granted an adjustment period, but you will need to be able to teach in French at the end of the third year following your appointment.
Interested?

For more information, please contact Mr Nicolas MAVROUDAKIS, Chairman of the Committee on Medical Programs (phone: '32 2 555.43.84 - e-mail: nicolas.mavroudakis@ulb.ac.be) and/or Isabelle PIRSON, Chair of the Committee on Programmes in Biomedical Sciences (phone: '32 2 555.41.37 - e-mail: – courriel : pirson.isabelle@ulb.ac.be).

Applications must be sent by e-mail to the rectorate of the Université Libre de Bruxelles (rectrice@ulb.be) and to the faculty deanship (admin.medecine-ulb.be)

They must include the following:

- an application letter
- a Curriculum vitae including a list of publications:
- a 7,000-character report (4 pages) presenting the applicant’s research activities and a research project, including how these will integrate into ULB’s research teams
- a teaching dossier including a 7,000-character report (4 pages) on the applicant's previous teaching activities and a teaching project for the first five years in this position; these must be relevant to the faculty and to the teaching profiles for the programmes to which the applicant is to contribute
- a note on the applicant's international achievements and projects (no more than 4 pages)
- the names and e-mail addresses of five referees (respecting the gender balance) who may be contacted by those in charge of evaluating applications. These referees should not have conflicts of interest because of family or emotional ties.
- certificates of previous positions justifying 4 years of post-doctoral experience

The appointment to the academic staff of ULB is made at “Premier Assistant” level, if the candidate has had a PhD for less than eight years (on 1 October of the year of appointment). If the candidate has had a PhD for eight or more years, on 1 October of the year of appointment, then the appointment is made at “Chargé de Cours” level. As of their appointment, members of academic staff are authorised to use the honorary title of ”Professeur”.

**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? Do not hesitate to contact Marie Botty, the Gender and Diversity resource person of the Human resources Department - SPES ([marie.botty@ulb.be](mailto:marie.botty@ulb.be)). Be assured of the confidentiality of this information.


You will find all the regulations relating to academic careers on our site at [http://www.ulb.ac.be/emploi/academique.html](http://www.ulb.ac.be/emploi/academique.html).