

## FULL-TIME ACADEMIC POSITION IN BIOSTATISTICS

### SCHOOL OF PUBLIC HEALTH

Reference : 2019/A001

Application deadline : 12/01/2019

Start date : 01/10/2019

### Job description

Position-related principal activities are equally shared between teaching and research. In complement, the candidate will be involved in various administrative responsibilities related to the usual functioning of the School of Public Health (juries, deliberations, recruitment commissions, faculty committee for PhD...). At last, he/she will contribute to the visibility and reinforcement of the SPH's place in the national and international expertise regarding biostatistics and quantitative methods applied to epidemiology.

Supported by the environment provided by the SPH and the ULB, he/she will have the opportunity to develop a fruitful research of high level. Such research developments will particularly be fostered by collaboration with the SPH research centers, faculties of the ULB Health Cluster, the biostatistics platform BIOPS, along with other national and international institutions. The permanent appointment will occur after the probation 3-year period.

### Area of Research

The candidate has previously acquired research skills which will be fully integrated in the philosophy of the research axes developed at the Research Center "Epidemiology, Biostatistics and Clinical Research" (CR2). Since a wide spectrum of health domains is covered at the SPH, in particular the CR2, possibilities for implementing applied biostatistical methods are rich. The candidate will lead such research projects himself/herself and will apply to any fund call or projects external to the University (FNRS, Regions, Europe...). In that respect, he/she will propose a development plan of applied research in his/her application file.

As a biostatistician connected to this Research Center, he/she will in particular carry out methodological research related to the CR2 activities or to those of the other SPH Research Centers (see the SPH website). Such collaborations would be, among others, to propose statistical methods applied to the health sciences and well-adapted to the needs, particularly by using methods which have been rather rarely used up to now in the domains covered at the SPH.

The candidate will benefit from the technical and administrative support of the SPH, the ULB Research Department and of the Europe Unit for the preparation and the management of his/her research projects. At last, within his/her participation in the community services, he/she will have the occasion to contribute in consulting activities in relation to the ULB Health Cluster and the BIOPS Platform (<https://www.ulb.ac.be/polesante/pole-sante-biops.html>).

## Educational and scientific goals

The candidate will be involved in the Master in Public Health Sciences (in French; common part and stream "Epidemiology and Biostatistics") and in the Specialized Masters (in French or English). He/she could be also involved in the development of distance training programs.

He/she will mobilize his/her pedagogical competences so that students will acquire theoretical and applied biostatistical skills that will allow them to face professional situations which require rigorous scientific approaches. Therefore he/she will teach them biostatistical components matching with the quantitative methods used in epidemiology and clinical research. He/she will also participate in the supervision of Master theses.

Les compétences attendues incluent des pratiques enseignantes mobilisant des pédagogies actives et l'utilisation des technologies actuelles d'information et de communication. Les contenus des enseignements ainsi que leur évaluation seront adaptés aux profils et aux effectifs étudiants.

Expected skills for teaching practices include active pedagogy and use of information and communication technologies. Teaching methods and evaluation will be adapted to the learners' profiles and population.

In his/her application file, the candidate may refer to the competences referential (learning profile) of the Master in Public Health Sciences; available on: <http://www.ulb.ac.be/facs/esp/>.

The candidate will be responsible of the assistant activities (or assistant-students) who give directed exercises related to his/her lessons. In addition, he/she will frequently interact with the other teachers of the Learning Units in which he/she is involved in order to ensure the consistency of the contents. At last, he/she will implement the learning evaluation according to the modes he/she will define consistently with his/her courses (written exams, personal works...).

Courses covered at the time of recruitment

During the first year, the maximal teaching assignment will be of 90 hours and will progressively increase up to 120 hours after three years. In order to understand the detailed content of these learning units, the candidate will consult the Courses catalogue on the SPH website. This teaching part is indicative and may change according the candidate competences and the Master programs' needs.

### Master in Public Health Sciences

- SAPU-L-4012 *Quantitative Methods in Public Health* (Méthodes quantitatives en santé publique) – **partim Biostatistics: Lessons 24h – Directed exercises 24h.**
- SAPU-L-4118 *In-depth Analysis of Health data* (Analyse approfondie des données de santé) – **partim Biostatistics: Lessons 30h – Directed exercises 30h.**
- STAT-L-5215 *Longitudinal Studies* (Etudes longitudinales) – **partim Analyses of longitudinal studies: Lessons 30h – Directed exercises 12h.**
- SAPU-L-5315 *Practical analysis of quantitative health data (using R)* (Pratique de l'analyse des données quantitatives en santé (avec R) – **partim Rcmdr : Lessons 16h – Directed exercises 24h [option].**
- SAPU-L-5314 *Exploratory multidimensional analysis* (Méthodes d'analyse exploratoire multidimensionnelle): **Lessons 18h – Directed exercises 30h [option].**

### Master in Public Health Methodology

- SAPU-L-6526 *Biostatistics in public health II* – **partim Multivariate analysis : Lessons 24h et Directed exercises 16h.**

## Qualifications required

PhD Degree (with doctoral thesis)

- in statistics or mathematics applied to public health sciences;
- in biostatistics;
- in public health sciences oriented towards biostatistics;
- or equivalent domains.

## Skills required

- You have acquired skills in biostatistics applied to epidemiology, public health and clinical research.
- You have skills in mathematics applied to biostatistics.
- You should have at least 4 years of research experience at the time of their recruitment (PhD period could be included in this period). In particular, you have acquired theoretical and practical skills to lead research including (1) the development of biostatistical methods and (2) their application to epidemiology and public health.
- You have a post-doctoral experience and an excellent scientific record, including peer-reviewed publications.
- Exchange periods outside of the applicant' home institution (during or after the PhD) during several months at least will be taken into consideration when evaluating applications.
- You have abilities to develop teaching and research projects including international and national collaborations.
- You have an advanced knowledge and practice of the usual statistics software.
- You have a thorough knowledge of STATA and R to teach them.
- You are able to teach in class and in distance.
- If you do not speak French (level C1), a period of adaptation can be granted. However, you should be able to teach in French by the end of the third year following your appointment. Mastering English for a clear and understandable teaching including written and oral communication with English-speaking students is required.

## Interested?

For more information regarding research and teaching, please contact Mr Alain Levêque (telephone: +32 2 555.40.44 – E-mail: [alain.leveque@ulb.ac.be](mailto:alain.leveque@ulb.ac.be)). For administrative questions, information can be obtained by Mrs Joëlle Herzet Mme Joëlle HERZET (phone: +32 2 555.40.21 – E-mail: [joelle.herzet@ulb.ac.be](mailto:joelle.herzet@ulb.ac.be)).

Applications must be sent by e-mail to the rectorate of the Université Libre de Bruxelles ([recteur@ulb.ac.be](mailto:recteur@ulb.ac.be)) and to the faculty deanship ([presidence.esp@ulb.ac.be](mailto:presidence.esp@ulb.ac.be)).

They must include the following:

- an application letter including your motivation for the position;
- a Curriculum vitae including a list of publications (a template can be downloaded at <http://www.ulb.ac.be/tools/CV-type.rtf>);
- any relevant documents showing 4 years of research experience;
- a 7,000-character report (4 pages) presenting the applicant's research activities and a research project (6 pages max.) including how these will integrate into ULB's research teams, of the SPH in particular;

- a teaching dossier including a 7,000-character report (4 pages) on the applicant's previous teaching activities and a teaching project (6 pages max.) for the first five years in this position; these must be relevant to the faculty and to the teaching profiles for the programs to which the applicant is to contribute;
- a note on the applicant's international achievements and further projects (no more than 4 pages);
- 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.

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".

By sending in their application, applicants acknowledge they have read and understood the additional information and the regulations relevant to research staff, available at the following address <http://www.ulb.ac.be/emploi/academique.html>.