The Luxembourg Institute of Health is a public research organisation at the forefront of biomedical sciences. With its strong expertise in population health, oncology, infection and immunity as well as storage and handling of biological samples, its research activities impact on people's health. At the Luxembourg Institute of Health, devoted scientists investigate disease mechanisms to develop new diagnostics, innovative therapies and effective tools to implement personalised medicine. The institution is the first supplier of public health information in Luxembourg, a strong cooperation partner in local and international projects and an attractive training place for ambitious early-stage researchers.

BioStatistician with experience in Neuroscience

2- year fixed-term contract, full-time, entry date: immediately

The Biotatistician will join the LIH's Competence Center for Methodology and Statistics (CCMS).

Within Epidemiology and Statistic Platform of the National Center of Excellence in Research in Parkinson's Disease (NCER-PD) project funded by the Fonds National de la Recherche, the CCMS provides methodological support in statistical analysis and data handling as well as offering support in writing papers.

The NCER PD project focuses on improving the diagnosis and stratification of Parkinson's disease (PD) by combining detailed clinical and molecular data of patients to develop novel disease biomarker signatures and define subtypes of the disease. The ultimate goal is to diagnose PD at an earlier stage than is currently possible and subsequently to offer patients more personalized treatment options. It represents a joint effort between 4 partners in Luxembourg (LCSB, CHL, IBBL and LIH) that unite their expertise in Parkinson's disease.

To support the team we are looking for a Biostatistician who will mainly be responsible for providing support in the design and analysis of different sub-studies within the NCER-PD project. The sub-projects will include fMRI pre-processing and analysis and clinician based research questions as well as epidemiological featured investigations.

Key Accountabilities

- Give advice on the design of studies on research projects led by Luxembourg Institute of Health researchers and NCER PD researchers.
- Develop the statistical analysis plans for such projects and studies
- Support pre-processing, processing and statistical parametric mapping of fMRI data
- Check the quality of the data communicated by researchers for projects to which the statistician is attached.
- Carry out the statistical analysis report and discuss it with researchers.
- Participate in the drafting of publications, the preparation of lectures related to the work carried out
- Participate in the drafting of standard operating procedures for the Competence Centre in Methodology and Statistics.
- Understand and respond to the statistical needs of collaborators and clients working in life sciences.

Key Skills, Experience and Qualifications

- PhD with statistics, biostatistics or epidemiological methods (or similar qualification) machine learning or computer science .
- Significant experience in neurosciences, previous experience in neurodegenerative diseases (Parkinson's Disease, Alzheimer disease) is an asset
- Previous professional experience of at least 5 years in functional neuro-imaging data analyses.
- Experience in a clinical research centre is an asset.
- Knowledge of epidemiological methods
- Cross-disciplinary aptitude and a keen interest in collaborative biomedical research are a pre-requisite
- Good communication skills, autonomy, responsibility, good negotiating abilities, ability to work in a team, good listening skills, flexibility.
- IT skills: Matlab or R, SAS is an asset, Microsoft Office.
- Language skills: English (fluent command), German and/or French is an asset

Located in Luxembourg, LIH offers the opportunity to work in a dynamic, international and multilingual environment that values personal respect and professional achievement based on the highest intellectual and ethical standards. The remuneration for this position shall be based on qualification and experience. **Applications including a cover letter and a full curriculum vitae should be sent before 1 June 2020 through our website www.lih.lu/jobs. Ref.: VD/NEUROSTAT0420/MV/CCMS**