

The BIO3 group at the GIGA institute of the University of Liège (Belgium) is looking for **2 passionate and dedicated research fellows (1 scientist – PhD level, 1 post-doc)** interested in developing and applying statistical/machine learning/network-based models within modern genetic epidemiology to improve our understanding of **disease heterogeneity** for complex diseases such as asthma/allergy, inflammatory bowel disease, pancreas cancer, neurodegenerative diseases. The contract is for 1 year, but can be considered for extension or, in the case of the scientist position, as a starting point for a PhD. Starting date: as soon as possible (negotiable). The candidate is expected to gain cross-disciplinary training in genomics, clinomics, bioinformatics and genetic epidemiology with “Big Data”.

Requirements

Scientist. We are looking for an exceptional team player who has a passion for open-source software and analytic pipeline development with a strong interest in contributing to biomedical research. To be eligible, you have a Bachelor's Degree in Computer Science, Bioinformatics, Computational Biology or a related field, with excellent programming skills (e.g., C++) and ability of setting up software testing frameworks. Experience in modern software development technologies, such as parallel computing or cloud computing, are an extra advantage. Good English communication skills, both oral and written, are necessary, as well as being able to meet deadlines.

Post-doctoral researcher. We are looking for an exceptional team player who has a passion for “Big Data”

and Human Genetics. You have a strong interest and motivation for fundamental research, are eager to learn and to develop novel techniques. To be eligible, you have a PhD degree in Statistical Genetics, Biostatistics, Genetic Epidemiology, Bioinformatics, Machine Learning or a related relevant field in Life Sciences and have practical experience with data analyses derived from high-throughput technologies. You have a record of high quality publications and (co-)authored at least three internationally published, peer-reviewed papers. As a creative critical thinker you are able to work both autonomously and as a collaborative team player, and are willing to work with interdisciplinary teams. Excellent English communication skills, both oral and written, are therefore necessary, as are the ability to meet deadlines and to multitask efficiently.

Terms of employment

The position will be funded according to the regulations of the Fund for Strategic Fundamental Research (FRFS) and in particular FRFS-WELBIO.

How to apply?

Applications should be sent as a single PDF file by e-mail to kvansteen.applications@gmail.com by **June 1, 2018**. These should include a cover letter explaining your qualifications for this position, a motivation, and the names and contact information of 2 academic referees, as well as a scientific CV with detailed information on education, diplomas, grades, past research positions, and publications.

About our group

BIO3 is part of GIGA-R, with primary pillar at the University of Liège (Belgium), and secondary pillar at KU Leuven (Belgium). BIO3's mission is to help biomedical researchers carry out their investigations and analyze their data, as well as to design new statistical and bioinformatics methods whenever they are needed, in particular to improve **systems genetics and systems medicine**. The areas of expertise of BIO3 include detecting and validating replicable (biological/statistical) interactions within and between omics data sources, systems modelling of multi-omics data, molecular reclassification of disease. More info at: <http://bio3.giga.ulg.ac.be/>