Research Associate Position in Machine Learning Applications to Multi-Levels Omics Data Analysis

Bordeaux, France

Applications are invited for two young research scientists to work on the development and application of Deep Learning (DL) and Artificial Intelligence (AI) based methodologies to analyse biological data in the context of two European ERA-NET programs on Personalised Medicine. Posts, funded for 36 months in the first instance, are available at the Bordeaux Public Health Center (INSERM UMR_S 1219; https://www.bordeaux-population-health.center/), a unique research center gathering about 250 scientists with outstanding records in epidemiology, biostatistics, data integration and pharmacology.

The main responsibility of the post-holders will be to apply and further develop DL and AI approaches to identify biomarker signatures for the risk of cardiovascular diseases. Multi-omics data, including genomics, transcriptomics, proteomics, methylome, from epidemiological cohorts and cellular/animal models are available.

The vacant posts are at Research Associate (Post-Doc) level but suitably qualified individuals without a PhD are also encouraged to apply. The post-holders shall have relevant experience in machine/deep learning methods (e.g Neural Networks, Genetic Algorithms,...) and/or bioinformatics/statistical analysis of multi-dimensional high-throughput data, a sound understanding of scripting using R or other programming language in relation to the analysis of very large datasets. The post-holders should demonstrate strong abilities to work independently while capable of liaising on a regular basis with researchers in other disciplines, accurately judge priorities and have excellent organisational and communication skills. French language skills are not a prerequisite.
The selected candidates will work under the supervision of Dr David-Alexandre Trégouët.

Posts are available from July 2019. Formal applications should be sent to David-Alexandre Trégouët (david-alexandre.tregouet@inserm.fr) and should include a covering letter, CV and contact details of up to three referees.