M2 internship in Genetic Epidemiology

Description

A M2 internship is available at Inserm UMR1167 unit – Risk factors and molecular determinants of aging-related diseases. The trainee will work under the supervision of Céline Bellenguez, in a multidisciplinary team which is a world leader in the genetic epidemiology of Alzheimer's disease (AD). This disease results from the interaction between multiple factors: in addition to 14 modifiable risk factors, more than 80 genetic loci are associated with AD risk. Deciphering the substantial genetic component of AD, including its genetic heterogeneity, is necessary to better understand the biological mechanisms underlying the disease and to develop efficient precision medicine. In this context, the objective of the internship will be to identify subgroups of genetic variations associated with AD risk and involved in the same biological pathways. This will be done by applying clustering approaches to genome-wide association studies (GWAS) summary statistics.

This internship could lead to an application to the graduate school funding for a thesis.

Required qualifications and skills

Master 2 in biostatistics, data science, genetic epidemiology or related subjects
Programming skills in R as well as another language such as Perl or Python
English proficiency
Knowledge of the Unix/Linux environment is a plus

Location

Inserm UMR-1167 RID-AGE
Institut Pasteur de Lille,
1 rue du Professeur Calmette
59019 Lille Cedex, France

Lille is a dynamic regional capital, a cultural hub and bustling university city of ~250,000 (> 1 million in the greater metropolitan area) and is well-connected to Paris, Brussels, and London via high-speed train. 5-acres integrated urban campus of Institut Pasteur de Lille is located in central Lille and houses state-of-the-art research facilities (https://pasteur-lille.fr/en/).

Application

Interested candidates should send a CV and a cover letter (in French or in English) to Céline Bellenguez (celine.bellenguez@pasteur-lille.fr).