Postdoctoral Fellow – Jaffe Lab

Job Summary:

The Jaffe Lab at the Lieber Institute for Brain Development (LIBD) is recruiting a Postdoctoral Fellow in Computational Epigenomics to study epigenetic changes associated with causes and consequences of serious brain disorders like schizophrenia.

Recent genome-wide association studies for schizophrenia have provided the first real clues, independent of symptomatology and epiphenomena, related to the etiology of the disorder, but the mechanisms underlying any given risk variant are largely unknown. The successful applicant will be involved in LIBD projects within the NIMH psychENCODE consortium, primarily focusing on analyzing whole genome bisulfite sequencing data to characterize the DNA methylation landscapes in the human brain on 130 patients with schizophrenia and 150 non-ill controls across two brain regions to better understand the molecular causes and consequences of this debilitating disorder. These epigenetic data will be integrated with compete genetic and sequencing-based transcriptomic data on these same well-characterized subjects to better understand the interplay between the genome, epigenome, and transcriptome in the human brain, and how dysregulation occurs in schizophrenia.

Qualifications:
- Ph.D. in computer science, computational biology, biomedical engineering, or a related field
- Excellent R/Bioconductor knowledge and skills
- Excellent problem-solving skills
- Excellent written and verbal communication skills

To Apply:

Interested applicants should submit a cover letter, example code, their *curriculum vitae* and the names and contact information of three references to: jobs@libd.org.

EEOC Statement:

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