

The Lieber Institute for Brain Development

Research Associate - Gene Networks

Location: Baltimore, MD

A little about us:

The Lieber Institute for Brain Development (LIBD) was conceived from the realization that a new approach is needed to fully exploit the unprecedented opportunities to accomplish the critical goal of helping affected individuals and their families. The LIBD aims to transform the research landscape in two ways: by providing new tools for scientific discovery and by developing new collaborative approaches to achieve our ambitious mission.

The mission of the Lieber Institute for Brain Development is to translate the understanding of basic genetic and molecular mechanisms of schizophrenia and related developmental brain disorders into clinical advances that change the lives of affected individuals. We are an independent 501(c)(3) medical research institute located in the Bioscience Park on the campus of the Johns Hopkins School of Medicine and Hospital.

Job Summary:

Research Scientists at the Lieber Institute provide scientific functions in support of the mission of the Institute and of funded projects. This position focuses primarily on biostatistics and computational biology. The Research Associate will provide the main support for an NIH-funded project working with Co-PIs Prof. Weinberger and Dr. Pergola to generate network models of gene co-expression that vary along the lifespan. The candidate will develop innovative approaches to analyze RNA sequencing data and identify genetic variants associated with gene co-expression trajectories.

Duties and responsibilities:

- Perform the analyses outlined in the NIH projects
- Develop novel computational approaches in team with LIBD scientists for the analyses of RNAseq time series
- Interpret, validate and distribute data to meet project goals and timelines
- Conduct complementary analyses to provide comparisons between alternative approaches
- Code and implement algorithms to support the research team
- Prepare and maintain datasets to support the project

Education and Experience Requirements:

- B.S. degree in Bioinformatics, Biostatistics or Computational Biology is required. M.S. degree is preferred.
- Minimum three years of experience in a research environment is required.
- Experience with coding in Unix and R for genomic data science is required. Additional experience with graph theory, machine learning, and use of the JH cluster is preferred.

- Team oriented with excellent listening, verbal, and written communication skills.
- Detail oriented with excellent organizational skills and multi-tasking abilities.
- Must be flexible, analytical, and self-motivated.

To Apply:

Interested applicants should submit a cover letter, example code, and their *curriculum vitae* via email to jobs@libd.org with the subject line "Research Associate - Gene Networks".

EEOC Statement:

The Lieber Institute for Brain Development is proudly an equal employment opportunity and equal professional advancement employer. Employment decisions at the Lieber Institute for Brain Development are based on merit, qualifications, and abilities. It is our policy that the Lieber Institute does not discriminate in employment opportunities on the basis of race, religion, color, sex, age, marital status, national origin or ancestry, citizenship, physical or mental disability, sexual preference/orientation or veteran status with regard to any position or employment for which the applicant or employee is qualified.