A little about us:

The Lieber Institute for Brain Development was conceived from the realization that a new approach is needed to fully exploit the unprecedented scientific opportunities to accomplish the critical goal of helping affected individuals and their families. The Lieber Institute 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.

The Lieber Institute offers a generous benefits package which includes paid holidays, sick, personal and vacation time off.

Job Summary:

A staff scientist position in bioinformatics is now available to work with Dr. Shizhong Han, Lead Investigator at the Lieber Institute for Brain Development (LIBD) and Associate Professor in the Department of Psychiatry and Behavioral Sciences at Johns Hopkins.

Research in Dr. Han's lab has been focused on investigating the genetic basis of psychiatric disorders, and translating genetic findings into drug discovery for disease treatment. The successful applicant is expected to work with Dr. Han to apply advanced analytical methods to further understand biological mechanisms underlying psychiatric disorders and accelerate drug development.

The candidate will perform creative analysis on multi-omics datasets generated from the human postmortem brain samples at LIBD, including GWAS, whole genome bisulfate sequencing, and RNA-Seq datasets at bulk tissue and single cell levels. The candidate is also expected to work with Dr. Han on genetic-driven drug discovery for psychiatric disorders. Ongoing projects include repurposing existing drugs through network-based approaches and identifying novel drug candidates by applying state-of-the-art deep learning techniques.

The scientist will be committed to a common mission, a team effort, and collaborations across academia and industry.

Minimum Qualifications:

- Master's Degree or higher in Computational Biology, Bioinformatics, Biostatistics, Genetics, Neuroscience, or related field is required.
- 5+ years of related experience is required, and a combination of the following attributes:
- Previous experience with machine learning, deep learning or network-based approach.
- The position will require proficiency in Linux and programming with R, Python, or Perl.
- Excellent time management and problem-solving skills.
- Excellent written and verbal communication skills, including proficiency with MS Office.

Special Knowledge, Skills, and Abilities:

- Collaborative person who is proud of their important role in the scientific discovery process.
- Driven by providing quality service along with an attention to detail.

To Apply: Interested applicants should submit a cover letter and curriculum vitae with the subject line "Staff Scientist I- Bioinformatics".

Physical Requirements for Lab position:

- Remaining in a seated or standing position for extended periods of time;
- Reaching and grasping to manipulate objects with fingers;
- Mobility, including the ability to maneuver around a laboratory setting including the ability to move materials weighing up to 25 pounds;
- Communication skills using the spoken and written word;
- Having the ability to receive detailed information through oral communication;
- All other physical demands in a standard laboratory environment.

** If accommodations are needed due to pregnancy or a disability, please contact jobs@libd.org

EEOC Statement:

At the Lieber Institute, we are committed to a work environment of mutual respect where employment decisions are based on merit. As an equal opportunity employer, the Lieber Institute does not discriminate in employment opportunities on the basis of race, color, religion, color, sex, gender identity/expression, sexual orientation, pregnancy, marital status, age, national origin or ancestry, citizenship, disability (physical or mental), genetic information, military service, or other non-merit based factors protected by state or federal law or local ordinance, with regard to any position or employment for which the applicant or employee is qualified.