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## **Job Title: Research Associate (LCM)**

### **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. The Lieber Institute is 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:**

The Lieber Institute for Brain Development is home to a repository of >3000 postmortem human brain subjects spanning all diagnoses across the lifespan. A critical brain research challenge lies in identifying molecular mechanisms of disease and aging at the cell-type level within specific brain regions. We employ the laser capture microdissection (LCM) system to isolate specific cell populations from frozen postmortem human brain tissue, and perform comparative molecular characterizations of these cells between control and diseased samples. The position reports to the Chief Medical Officer and Staff Scientist of Neuropathology.

### **Key responsibilities:**

This position will involve training in multiple disciplines including human brain neuroanatomy, specific neuron morphology, cryostat sectioning, laser capture microdissection, RNA and protein extraction and group data science analysis in the context of scientific research questions. The candidate will be expected to contribute to scientific publications and develop molecular cell type assays for grants and contracts.

### **Minimum Qualifications (Mandatory):**

Education: A Bachelor's degree in neuroscience, biological sciences or a related field is required. Master's degree in neuroscience or biological sciences is preferred.

Experience: Minimum 3 years' experience with molecular biology

- A track record of former scientific publications and / or research thesis completion is a plus.
- A basic understanding and demonstrable experience with wet lab techniques (e.g. DNA, RNA, protein isolation protocols) and scientific methodology is required. Knowledge/experience with microscopy techniques, cellular morphology and basic neuroanatomy is a plus.
- Good laboratory practice track record is a must (e.g. patience with scientific methodology standardization, maintaining a detailed project workbook, basic operations and management skills including inventory/ordering materials/interfaces with different scientific groups/project deliverable deadlines, etc. is critical for success in this position).
- Ability to work independently or with minimal supervision post-training is required.

**To Apply:**

Please email your resume and cover letter to [jobs@libd.org](mailto:jobs@libd.org) with “Research Associate (LCM)” in the subject line.

**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](mailto: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.