A junior faculty position (Research Associate) is available in the Schizophrenia Center at the Johns Hopkins School of Medicine. The center seeks a talented and highly motivated bioinformatic/biostatistic expert to pursue translational/clinical research projects related to psychiatric disorders, including but not limited to a) first episode psychosis project, and b) chronic schizophrenia and mood disorder project. Primary purposes include 1) to identify biomarker candidates, and 2) to generate hypotheses for pathophysiology of psychiatric disorders. The Schizophrenia Center is currently supported by multiple types of funding, such as NIH and other federal grants, non-profit organization grants, funds from industry, and funds from philanthropic donors.

A successful candidate will

- work with interdisciplinary teams including clinical, neuropsychological, neuroimaging, electrophysiological, behavioral, and molecular scientists
- analyze high-dimensional data including molecular profiling data (microarray, RNA-seq, and multiplexed immunoassay data), brain imaging data [anatomical Magnetic Resonance Imaging (MRI), functional connectivity MRI, and Magnetic Resonance Spectroscopy (MRS) data], and genomics data (array-based genotyping and next generation sequencing data)
- integrate data across clinical and molecular data layers
- develop clinical databases and their web-based systems in concert with members of participant recruitment sub-team
- can transition to a tenure-track faculty position if their achievements meet the criteria for the promotion at the Johns Hopkins University.

Qualifications (Education, Experience and Skills)

- Ph.D. degree in bioinformatics, biostatistics, systems biology or similar field.
- Broad analysis experience of molecular profiling data (microarray, RNA-seq, and multiplexed immunoassay), genetic data (array-based genotyping and re-sequencing) or brain imaging data (anatomical MRI, functional connectivity MRI, and MRS).
- Solid skills in statistical design and analysis of translational or clinical studies
- Excellent programming skills in R and Python
- Experiences in Unix/Linux shell
- Experiences in web-based database development using Javascript, CGI script, and SQL DB (e.g., MySQL, SQLite).
- Ability to work collaboratively with members
- An understanding of pre-clinical biology, pharmacology, and/or psychiatric disorders is a plus

Contact: Akira Sawa. Please send CV to JHSZC@jhmi.edu