MCLEAN HOSPITAL

Job Title: Research Associate Non-MD/PhD (3069679)   Job Family: Research

Job Code: 000675   Sal. Plan/Grade: MRCH/501   FLSA Status: Exempt

Research Department/Laboratory: NRI   Position Reports To: Principal Investigator

GENERAL SUMMARY/ OVERVIEW STATEMENT:

Psychosis Neurobiology Laboratory and Psychotic Disorders Division of McLean Hospital, Harvard Medical School, is seeking a biostatistician to perform various statistical analyses and assist principle investigators to build models to better understand the mechanisms and recovery trajectories for severe mental illness, particularly bipolar disorder and schizophrenia.

Our team have acquired an analyzing array of clinical, biological and behavioral data, including: (1) EEG and electrophysiological measures, (2) structural and functional neuroimaging, (3) *in vivo* measures of brain biochemistry, (4) cognition, (5) function recovery assessments, (6) genetics, and (7) wealth clinical characterization and electronic health records.

The candidate should have a background in biostatistics and/or bioinformatics, or a related discipline (including data mining) with primary experience in apply statistical approaches for analyzing datasets and building prediction models. The candidate will be based in the Psychosis Neurobiology Laboratory and Psychotic Disorders Division. The candidate will interact with the Psychosis Disorder collaborative team to provide biostatistical and epidemiologic support to clinical investigators from the hypothesis generation phase through the dissemination of results.

This position is intended for individuals looking for long-term careers in the field of psychiatry and neuroscience, applying experimental design methodology and statistical skills to understand the complexity of severe mental illness. Experienced with machine learning and prediction modeling algorithms on top of traditional statistics to solve data driven questions are highly desired.

Salary is commensurate with experience and excellent benefits are included. McLean is an equal opportunity and affirmative action employer committed to diversity and inclusion in all aspects of recruiting and employment.

PRINCIPAL DUTIES AND RESPONSIBILITIES:

Provide statistical expertise and support for various projects, including study design, statistical methodology, power and sample size calculation, prepare statistical section in study protocols and analysis plan, database setup on specific studies, and analysis of various types of data. Perform consulting work and secondary data analysis for supporting principle investigators' manuscripts and publications and grant preparation.

SKILLS/ABILITIES/COMPETENCIES REQUIRED:

- Requires good oral and written communication skills. Must able to present summary of statistical results and communicate to non-statisticians
- Team player with excellent communication, analytical, and problem-solving skills
- Demonstrated ability to successfully apply appropriate statistical methodology to analyze data and to logically present it
- Experienced in preparation of analytical datasets, generate new variables, make analysis data sets, summarize data numerically and graphically
- Experienced in longitudinal data analysis with missing value, survival analysis, categorical data analysis, neuroimaging data analysis, complex survey and clinical psychometrics data analysis
- Experienced in applying machine learning approaches (supervised and unsupervised) to predict disease outcome from biomarkers for clinical patients
- Experienced in or contribute to manuscript publication
- Must have demonstrated an ability to work independently and sound analytical and organizational skills

QUALIFICATIONS:

- Master's degree in biostatistics and/or bioinformatics, or other discipline requiring intense data analysis required.
- Must have at least two years of directly related experience and have demonstrated competence in research techniques and methodologies.

Please apply at McLean website:
https://www.mcleanhospital.org/apply-work-mclean

or send CV and cover letter to:
Mei-Hua Hall, Ph.D.
Assistant Professor of Psychiatry
Harvard Medical School
 Psychosis Neurobiology Laboratory
https://www.mcleanhospital.org/biography/mei-hua-hall
Mailstop 315,
Admission Building S338
McLean Hospital
115 Mill Street
Belmont, MA 02478
Tel: 617-855-3632
mhall@mclean.harvard.edu