BRIGHAM HEALTH, BRIGHAM AND WOMEN’S HOSPITAL in Boston, Massachusetts is recruiting for an Assistant Professor within the Department of Anesthesiology, Perioperative and Pain Medicine (DAPPM).

We are seeking to employ a research scientist at the level of Assistant Professor in human/statistical genomics and metabolomics for the Department of Anesthesiology, Perioperative and Pain Medicine, Harvard Medical School.

We are looking for an enthusiastic and energetic individual to join our collaborative research effort, focusing on regulatory genomics and human disease genetics. We are principally interested in understanding how genetics contributes to complex traits, particularly myocardial ischemic injury and atrial fibrillation in humans. Projects include analysis of sequencing data, genomics data, biobank data, and GWAS data. Additionally, we are interested in performing causal transcriptional network and pathway analysis and detection of disease susceptibility genes/networks as well as examining the causal structure across the human serum metabolome and the relationship of metabolomic patterns to cardiovascular disease risk factor levels and outcomes. Moreover, we are interested in systematic integration of multiple intermediate omics.

The position offers a stimulating and multi-disciplinary environment and the opportunity to work with researchers at Harvard Medical School, Brigham and Women’s Hospital, the Program in Medical and Population Genetics of the Broad Institute of MIT and Harvard, and the Center for Genetic Medicine at Northwestern University Feinberg School of Medicine.

Because our work involves multiple collaborators, a good balance between independence and team spirit is essential, and effective communication skills are necessary. Applicants are expected to be familiar with bioinformatics tools and genomics databases. Women and minority applicants are encouraged to apply.

The qualified candidate should be highly motivated, with experience in genomics, metabolomics, integrative systems approaches, bioinformatics, computational biology, machine learning algorithms and human population genetics, with experience in statistical modeling.

Qualified candidates should have:

- A Ph.D. in a quantitative discipline such as statistics, computational biology, bioinformatics, computer science, and preferably more than 5 years out from their PhD
- Proficiency with statistical methods, statistical causal inference, systems approaches, multi-omic analysis, machine learning algorithms, modeling data with complex structure, data driven networks, metabolomics causal networks, Bayesian approaches and familiarity with databases
- Programming in a modern language (e.g. Python, Perl, Java), with knowledge of R, Linux and Cluster.
- Experience with biological networks and pathways analysis software
- Excellent written and oral communication skills,
- Strong scientific writing skills with first-author publication track-record

We are an equal opportunity employer and all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, disability status, protected veteran status, gender identity, sexual orientation, pregnancy and pregnancy-related conditions or any other characteristic protected by law.

Successful candidates should have an outstanding track record in human/statistical genomics and metabolomics. It is expected that applicants have a PhD degree in a quantitative discipline such as statistics, computational biology, bioinformatics, computer science, and at least 2 years of postdoctoral experience with a strong publication record and more than 5 years out from their PhD. The candidate must be an excellent teacher and meet the metrics for a Harvard Medical School (HMS) academic appointment at the level of Assistant Professor.
The Department values diversity among its faculty, is committed to building a culturally diverse intellectual community, and strongly encourages applications from women and minorities.

Qualified individuals should submit a cover letter and three references addressed to J. Danny Muehlschlegel, MD MMSc and a curriculum vitae to Rachel Abrams at rabrasms@bwh.harvard.edu. The deadline to apply for this position is April 31st, 2021.