

Research Fellow Job Opening

Description

We are seeking promising and highly motivated individuals for a postdoctoral research fellowship in the Division of Chronic Disease Research Across the Lifecourse ([CoRAL](#)) in the Department of Population Medicine (DPM) at Harvard Pilgrim Health Care Institute, a Harvard Medical School Affiliate. **The research will focus on understanding pathophysiology of gestational diabetes, as well as prenatal determinants of obesity and cardiometabolic risk in childhood, leveraging rich multi-omics data in the prospective pre-birth cohort Gen3G.** Gen3G recruited over 1000 women during pregnancy and has collected detailed phenotyping of glycemic and metabolic profile during pregnancy, at birth, and up to 5 years of age. The rich Gen3G genomics data include genotypes, whole genome sequencing, DNA methylation, transcriptomics, and metabolomics. Our current investigations focus on how placenta mRNA and microRNA contribute to maternal glycemic regulation during pregnancy, leveraging sequencing data available in Gen3G. Other projects may be available based on the interests of the Fellow and successful completion of primary analyses.

The Research Fellow will perform research under the guidance of Marie-France Hivert, MD, MMSc, an Associate Professor in the Department of Population Medicine (DPM) at Harvard Medical School and the Diabetes Unit at Massachusetts General Hospital. They will manage and transform data, conduct analyses in R, prepare tables/figures for manuscripts, and lead manuscript writing.

WHAT YOU WILL BE DOING

- Design analytic plans, including creating detailed analysis plans, timelines, meeting with faculty and staff collaborators, and planning for technical and data support.
- Provide epidemiological and biostatistical expertise for research projects, including leading analytical protocols, conducting data analysis, managing database design and development, and writing reports.
- Prepare manuscripts detailing research findings, submit findings to peer-reviewed medical journals and present research findings to department faculty and staff and at external scientific conferences.
- Perform out-of-the-box thinking, collaborate with others, and make a difference every day!
- Other duties and projects as assigned.

Qualifications

WHAT YOU NEED

- Doctoral degree, such as an MD, PharmD, or PhD.
- Knowledge of scientific research methods and biostatistics.
- Ability to learn techniques for analyzing complex data (in R).
- Sound knowledge of computer systems, including word processing and spreadsheet software
- Resilient, collaborative, flexible, innovative.

WHAT MAKES US STAND OUT

- Work-Life-Flexibility
- Paid volunteer time off

- Open Time Off
- Annual Mini-Grant to non-profit organization on behalf of employee
- Educational Reimbursement