



Icahn
School of
Medicine at
Mount
Sinai

Postdoctoral fellow: Exposomics Data Science

Employment Type: Full Time, 3 years. Start Date: Immediate

We are seeking an enthusiastic individual with significant data science experience to perform untargeted LC-HRMS data analysis and develop software tools in the Laboratory for Metabolomics and Exposomics Phenotyping (<https://www.petrickexposomelab.com/>), part of the Senator Frank R. Lautenberg Environmental Health Sciences Laboratory in the Department of Environmental Medicine and Public Health (EMPH) at the Icahn School of Medicine at Mount Sinai. You will play an integral role in analyzing our HRMS data from ongoing biomarker research and studies exploring environmental causes of disease, including cancer, autism, women's health, and others in large cohorts. Research is particularly focused on developing untargeted technologies in novel biological matrices for measuring early life exposures.

You are expected to be a part of the Metabolomics team, participate in discussions and lab meetings, as well as be an integral part of advancing the methods development and research projects central to our laboratory. As a postdoc, you will have opportunities to develop novel analytics strategies and exposomics discovery tools as software packages, analyze large metabolomics datasets to investigate associations with exposure mixtures and phenotypes, write publications as lead author, assist in grant writing, network with leading collaborators, and present your findings at scientific meetings.

Knowledge/Skills:

As the ideal candidate, you must have a Ph.D. in chemistry, biostatistics, computer science, bioinformatics, epidemiology, or related field. Experience with untargeted and mass spectrometry analysis is preferred. You must be a critical thinker and have a strong programming background in python and/or R, with a passion for writing clean, efficient code.

Our laboratory is located on Central Park in New York City and is affiliated with the Mount Sinai Health System, the largest health care provider in New York. EMPH has an NIEHS P30 core center with a pilot grant program to which fellows are eligible to apply and a formal mentoring and development program in conjunction with an NICHD-funded T32 training grant. EMPH also includes the new Institute for Exposomic Research, the first in the world focused on exposomics. The team-science approach in this department provides opportunities to co-author publications with leading collaborators. Fellows will be offered subsidized housing in Manhattan and a competitive stipend. Base salary is comparable to NIH stipend rate for each year of experience

Application process:

Interested candidates should email a cover letter including a summary of research interests and experience, as well as their curriculum vitae, to Dr. Lauren Petrick (lauren.petrick@mssm.edu).