Exciting opportunity to work with a multi-disciplinary team of scientists on a multi-generational cohort study. In the early 1970’s, a mix-up at a chemical plant in Michigan led to the widespread contamination of the food chain with a brominated flame retardant chemical. This cohort study, led by Michele Marcus, has been continuously funded by NIH for twenty-five years. This was the first study to find earlier menarche associated with chemical exposures \textit{in utero} and through breastfeeding. Other findings associated with exposure include miscarriages, Apgar scores, breast cancer, thyroid function, menstrual cycle hormones, epigenetic and metabolomic patterns. This ongoing research is conducted in close partnership with the affected community.

The Post-doc will primarily be involved in analyzing data and writing manuscripts. The candidate can build on preliminary work done previously and/or explore their own hypotheses within the data. The candidate can also propose new research questions. This is a large cohort (~8,000) with extensive data and biological samples collected during 40 years of follow-up (blood, urine, semen). Because the exposure occurred during a specific window of time, this cohort presents a unique opportunity to understand the role of life-stage in exposure/outcome relationships. In addition, three generations are represented in the cohort, enabling analyses of multi-generational effects.

\textbf{Research activities include but are not limited to the following areas:}

- Multi-omics analyses and exposure mixtures (GWAS, EWAS and metabolomics data)
- Life-course analyses of health outcomes.
- Completion of a randomized clinical trial of a dietary supplement to reduce body burden of lipophilic chemicals (study design paper, several results papers)
- Completion and analyses of a multi-generational epigenetic study

The initial appointment is for one year, and renewal for an additional year is expected if progress is satisfactory. Funding would be provided through a T32 training grant directed by Dr. Carmen Marsit (See following page). For more information about this research opportunity, please contact:

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Two postdoctoral training positions are available, one beginning July 1, 2021, and another January 1, 2022 at the Emory University Rollins School of Public Health under the mentorship of faculty conducting impactful, innovative, multidisciplinary research in the environmental health sciences. Postdoctoral fellows are supported by the Training Program in the Environmental Health Sciences and Toxicology, an NIH/NIEHS T32 supported training grant which is focused on training the next generation of leaders in the field by assuring a multidisciplinary training experience needed by trainees to develop as successful independent environmental health researchers and practitioners. Research specialties of faculty mentors include exposure science, environmental epidemiology, experimental and computational toxicology, water, sanitation and hygiene, implementation science, data science, climate science, and environmental 'omics. Using these tools, our researchers consider environmental impacts on reproductive, cardiovascular, infectious, mental, cancer, and neurobehavioral health outcomes.

As part of their training, the fellow will be encouraged to develop new ideas that promote current research, and will be required to prepare and publish scientific manuscripts under the direction of the Principal Investigator. The fellow will also be involved in the teaching and training of others, including students and research staff. Opportunities for the associate to apply for independent funding will be available and encouraged.

Trainees have opportunities for research training and enhancement through a number of research resources and centers at Emory, including the Emory NIEHS HERCULES Exposome Research Center (P30), the NIEHS/USEPA Children’s Environmental Health Center (Center for Children's Health, the Environment, the Microbiome and Metabonomics, or CCHEM2), a Fogarty Global Environmental and Occupational Health Training and Research Center (GEOHealth Hub), the Emory Center for Global Safe Water, Sanitation and Hygiene (CGSW), leadership and data center for the HAPIN intervention trial for indoor air pollution control through improved cookstoves, the NCI-designated Winship Comprehensive Cancer Center, and a university-wide initiative on climate change (Climate@Emory).

Positions are temporary appointments as a research trainee. The initial appointment is for one year, and renewal for an additional year is expected if progress is satisfactory and funds are available.

Minimum Qualifications: A doctoral degree or equivalent (Ph.D., M.D., ScD., D.V.M., DDS etc) in Environmental Health, Toxicology, Epidemiology, Genomics/Bioinformatics, Statistics/Biostatistics, or other relevant disciplines. Trainees in this program must be a United States citizen, a noncitizen national of the United States (e.g. born in outlying possessions of the US), or have been lawfully admitted for permanent residence in the US (e.g. possess a current permanent resident card) at the time of appointment. In addition, candidates should have excellent scientific writing and strong oral communications skills, as well as the ability to work effectively, collaboratively, and collegially with colleagues. Applicants who fail to meet these eligibility requirements will not be considered.

To Apply: Applicants should submit a cover letter describing their area or faculty member of interest, curriculum vitae, and names of at least 3 individuals who can provide a recommendation directly to the Program Coordinator, Adrienne Schwartz, adrienne.schwartz@emory.edu, as well as apply through HR. Any questions can also be directed to the Program Coordinator.