Environmental Epidemiology/Biostatistics/Exposure Science Postdoctoral Fellowship
University of California San Francisco
Program on Reproductive Health and the Environment

The UCSF Program on Reproductive Health and the Environment (PRHE) is seeking rising leaders in the field of environmental epidemiology and environmental health sciences for two postdoctoral candidate positions. Highly motivated applicants will have opportunities to work on diverse scientific projects, including: conducting epidemiological analysis of a demographically diverse pregnancy cohort study that is examining prenatal exposures to environmental chemicals and social stressors and their links to perinatal and neurodevelopmental outcomes in offspring; and applying novel computational and statistical techniques to analyze complex datasets involving general suspect screening for characterizing environmental chemical exposures in pregnant women and infants and their association with adverse pregnancy and developmental outcomes.

In addition to working with high resolution mass spectrometry data to perform general suspect screening of chemical exposures in pregnant women, post-docs will have opportunities to apply statistical and computational approaches to evaluate the cumulative and potentially interactive effects of exposures to multiple environmental and social stressors. This exciting work will be guided by a team of multidisciplinary scientists in environmental epidemiology, analytical chemistry, computational biology, and perinatal health research at UCSF and other collaborating institutions. Examples of recent work from this project include publications in EHP, Environmental Science & Technology, Epidemiology, Journal of Exposure Science and Environmental Epidemiology and coverage in the *New York Times*.

PRHE is a fast-paced, multi-disciplinary group of scientists and collaborators from other universities and labs nationwide who are committed to advancing scientific inquiry, professional training, research translation, public education, and health policies to reduce the impacts of environmental contaminants on reproductive and developmental health. We mentor and promote early career scientists by supporting their training and enhancing their capacity to engage in environmental health research, policy and education. In addition, we work closely with post-docs to support their efforts to seek extramural funding, including several successful K awards, to support their research in ways that advance their career objectives of becoming independent scholars. We are also committed to advancing diversity, equity and inclusion efforts in the environmental health field more broadly, through our research, mentoring program and science policy program.

PRHE's research areas include:
- Evaluating maternal and fetal concentrations of multiple novel and established environmental chemicals through innovative biomonitoring studies that apply both targeted and non-targeted methods.

- Investigating associations between environmental chemical exposures and adverse pregnancy and developmental outcomes.
- Applying novel and complex statistical and computational techniques to evaluate the cumulative and potentially interactive effects of exposures to multiple environmental and social stressors and how these stressogens affect maternal, perinatal, and child health disparities.

Knowledge/Skills:

The ideal candidate will have a strong background in epidemiology, biostatistics, computational biology, environmental health, or bio- and/or cheminformatics, and evidence of peer-reviewed publications. Excellent problem-solving skills, creative and interdisciplinary thinking, and the ability to learn and work with multiple software tools are required. Applicants must possess excellent written and oral communication skills and be fluent in both spoken and written English.

The successful candidate must have:
- PhD or equivalent doctoral degree in epidemiology, biostatistics, computational biology, environmental health science, risk assessment, cheminformatics, or other environmental health related field.
- Strong training in biostatistics and epidemiological methods.
- Strong programming skills in R, Stata and/or SAS.
- Excellent oral and written communication skills and track record of peer-reviewed publications.
- Experience with mass spectrometry/metabolomics data processing is a plus.

The postdoc will join an interdisciplinary group of basic scientists, epidemiologists, clinicians, and biostatisticians at UCSF Program on Reproductive Health and the Environment, EaRTH Center, UC Berkeley and other research institutions. They will also interact with clinicians, governmental decision-makers and the staff of non-governmental organizations in the field of environmental and public health to interface with PRHE's outstanding research translation work. The Postdoctoral Scientist will be advised by and work closely with Drs. Tracey Woodruff, Rachel Morello-Frosch, and Marina Sirota. The initial appointment is for one year, with an opportunity for an extension after successful completion of the first year. Start date is flexible, but preferable by early fall 2021.

PRHE is in the Department of Ob/Gyn in the School of Medicine at UCSF and affiliated with the [UCSF Environmental Research Translation for Health (EaRTH) Center](). The EaRTH Center offers globally recognized expertise, cutting-edge science and state-of-the-art lab support, multi-disciplinary collaborations, community outreach and engagement, and grant funding to create new opportunities in environmental health research. UCSF is a premier medical sciences institution dedicated to promoting health worldwide through excellence in research, teaching and patient care. The School of Medicine is ranked #1 nationwide in NIH support, and UCSF is

ranked annually as one of the top hospitals in the US. UCSF is committed to and offers excellent services for career training of future scientists.

Interested candidates should submit the following application materials to ucsfechostudy@ucsf.edu:

1) a cover letter that includes a statement of research experience and interests,
2) a curriculum vitae,
3) pdf copies of a recent publication or writing sample,
4) contact information for three references.

The University of California is an equal opportunity, affirmative action employer.

More information on PRHE can be found on our website and in our blog.