Environmental Epidemiology/Biostatistics 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 highly motivated applicants for a postdoctoral position to work on a project 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, the post-doc will 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, perinatal health research at UCSF and other collaborating institutions. Examples of recent work from this project include publication in EHP and coverage by the *New York Times*.

The UCSF Program on Reproductive Health and the Environment (PRHE) is a fast-paced, multi-disciplinary and committed group of scientists and collaborators who advance scientific inquiry, professional training, research translation, public education, and health policies to reduce the impacts of environmental contaminants on reproductive and developmental health. We also seek to mentor and promote early career scientists by supporting their training and enhancing their capacity to engage in environmental health research, policy and education.

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.

Knowledge/Skills:
The ideal candidate will have a strong background in epidemiology, biostatistics, computational biology, environmental health, and 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 good communication skills and be fluent in both spoken and written English.

The successful candidate must have:
- PhD 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.
- Experience with mass spectrometry/metabolomics data processing is a plus.
- Excellent oral and written communication skills and track record of peer-reviewed publications.

The postdoc will join an interdisciplinary group of basic scientists, epidemiologists, clinicians, and biostatisticians at UCSF, UC Berkeley and other academic institutions. S/he 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 will 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 the end of 2018.

PRHE is in the Department of Ob/Gyn in the School of Medicine at UCSF. 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. More information on PRHE can be found here: www.prhe.ucsf.edu. UCSF is committed to and offers excellent services for career training of future scientists.

Interested candidates should submit the following application materials to kristin.shiplet@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; and 3) contact information of three references.

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