Applications are invited for a post-doctoral fellowship in environmental and perinatal epidemiology at the University of Rochester Medical Center (URMC). This post-doctoral fellow will work to analyze and publish data from a prospective pregnancy cohort study in Rochester, NY and Pittsburgh, PA, examining if and how maternal air pollution exposure during pregnancy affects fetal growth, as well as markers of mechanistic pathways that may mediate an association. These include markers of systemic inflammation and oxidative stress, placental development and function including imprinted genes, as well as metabolic dysfunction and nutrient restriction. The successful candidate will apply various statistical methods for these analyses as well, including causal mediation methods and Bayesian kernel machine regression.

The postdoctoral fellow will be based in the Department of Public Health Sciences, Division of Epidemiology at URMC. However, the fellow will also have substantial interaction with other research team members at URMC in obstetrics & gynecology, biostatistics, pediatrics/neonatology, environmental medicine, toxicology, pulmonology and critical care medicine, and immunology, as well as several collaborators from Duke University in exposure science and epigenetics. The fellowship will require statistical analysis of data, preparation and publication of manuscripts, and presentation of study results at national and international conferences.

Applicants should have knowledge of epidemiology and biostatistics and must have a PhD or ScD in a related field (e.g., Epidemiology, Biostatistics, Environmental Health Sciences), or an MD with a MS or MPH in Epidemiology. Experience with epidemiologic research of air pollution and health effects is preferred, with prior experience studying pregnancy outcomes highly regarded. Knowledge of SAS and R, as well as written and verbal fluency in English, is required. Applicants should have the ability to work independently and in group settings. Although the candidate will be expected to complete a 2 year fellowship, the initial appointment is for 1 year with the possibility of a 1 year extension.

Rochester is in the Finger Lakes region of western New York State, with a host of recreational and entertainment activities for adults and children, as well as several colleges and universities. Housing is affordable and the cost of living very reasonable. The University of Rochester has an active Postdoc Association that provides a highly enriched environment for postdoctoral fellows, including career development workshops and social opportunities. More information is available at: [https://ccc.rochester.edu/pda/home/](https://ccc.rochester.edu/pda/home/).

To apply, please submit a cover letter, curriculum vitae, two names for letters of reference, and 1-2 representative publications to Dr. David Rich ([David_Rich@urmc.rochester.edu](mailto:David_Rich@urmc.rochester.edu)). Review of applications will continue until a candidate is identified.