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Subject: Postdoctoral opportunity at U.S. EPA

The opportunity can be found at: <https://www.zintellect.com/Posting/Details/2745>

A brief description:

A research opportunity is currently available at the U.S. Environmental Protection Agency's (EPA) Office of Research and Development (ORD)/National Health and Environmental Effects Research Laboratory (NHEERL). This appointment will be served with the Environmental Public Health Division (EPHD) in Chapel Hill, NC.

This postdoctoral research opportunity aims to refine the water domain in the Environmental Quality Index (EQI) by incorporating two new measures: aquatic condition and watershed integrity. These two variables as well as the EQI will be explored as an exposure metric in relation to adverse health outcomes including, but not limited to areas of perinatal outcomes, child health, gastro-intestinal outcomes, elderly health, infant mortality, and overall mortality.

The research participant will collaborate with an EPA team of investigators that have developed the EQI and the ecologic measures of aquatic condition and watershed integrity. The participant may explore nationally available data, conduct statistical and data analyses in development of the water domain. Potential research may include the following: 1) conducting data analysis, documenting statistical code and interpretation of results; 2) conducting and documenting quality assurance and review of data analysis and databases; 3) participating in report preparation, presentation and summaries of the data; 4) presenting at professional meetings data analyses; and 5) participating in authoring manuscripts.

Potential research projects may focus on the following general areas where the research participant will learn: use of principal components analysis for develop of EQI; use of ecology derived measures to investigate health outcomes; use of water aquatic condition and watershed integrity in health outcome research; development and evaluation of statistical tools to handle missing environmental data in epidemiology research; utilization of large publicly available databases to investigate overall environmental quality and adverse health outcomes; development of sensitivity analysis for the overall EQI; and application of Bayesian statistical techniques to environmental monitoring data and health outcomes.

This program, administered by ORAU through its contract with the U.S. Department of Energy to manage the Oak Ridge Institute for Science and Education, was established through an interagency agreement between DOE and EPA.

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