

Characterizing and Reducing Environmental Impacts on Public Health

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Opportunity Title

Characterizing and Reducing Environmental Impacts on Public Health

Reference Code

EPAORDNHEERLEPHD201606

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.

Environmental factors contribute to a significant public health burden in the United States. The effects of environmental exposures range from low severity outcomes to cardiopulmonary hospitalizations and death. Social, behavioral, policy and other sources of interventions can induce changes in environmental conditions and improve public health outcomes, but their effectiveness is not well documented. This research opportunity is for a highly motivated individual to participate in inter-disciplinary research projects that examine various aspects of environmental impacts on health and wellbeing, determinants of vulnerability, and effectiveness of various intervention strategies to reduce these impacts.

The research project may involve traditional epidemiological analysis of health effects, elements of causal inference, human behavior, and decision making. The research will be conducted in the clinical and epidemiological setting including panel studies and large population cohorts, as well as data collected through crowd sourcing, citizen science and other forms of participatory science. Environmental exposures are often determined using large databases, model predictions, remote sensing data or similar methods.

The participant will interact with a team of statisticians and epidemiologists and may have the opportunity to be involved in the following activities:

- Conducting data analysis, documenting statistical code and interpretation of results.
- Conducting and documenting quality assurance and review of data analysis and databases.
- Preparing reports, presentations and summaries of the data.
- Presenting results at professional meetings.
- Publishing results.

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.

Qualifications

Applicants must have received a doctoral degree in epidemiology, biostatistics, statistics, economics, environmental health sciences, environmental engineering or a related field within five years of the desired start date, or all requirements for the degree are expected prior to the start date. Knowledge of regression techniques including random effects and hierarchical models, as well as experience analyzing large data are desired.

The appointment is full-time for one year and may be renewed upon recommendation of EPA and contingent on the availability of funds. The participant will receive a monthly stipend. Funding may be made available to reimburse the participant's travel expenses to present the results of his/her research at scientific conferences

and stakeholder venues. No funding will be made available to cover travel costs for pre-appointment visits, relocation costs, tuition and fees, or participant's health insurance. The participant must show proof of health and medical insurance. The participant does not become an EPA employee.

The mentor for this project is Dr. Ana Rappold (rappold.ana@epa.gov). The desired start date for this appointment is September 1, 2016.

How To Apply

A complete application consists of:

- An application (<https://www.zintellect.com/Home/Applicant>)
- Transcripts – Click here for detailed information about acceptable transcripts (<http://orise.ornl.gov/sepreview/transcripts.html>)
- A current resume/CV, including academic history, employment history, relevant experiences, and publication list
- Two educational or professional references

All documents must be in English or include an official English translation.

If you have questions, send an email to EPArpp@ornl.org (<mailto:EPArpp@ornl.org>). Please include the reference code for this opportunity in your email.

Number of Openings

1

Program

Office of Research and Development/National Health and Environmental Effects Research Laboratory (ORD/NHEERL)

Academic Levels

- Postdoctoral

Eligibility Requirements

- Degree: Currently pursuing a Doctoral degree or Master's degree or have received one of these degrees within 60 months.
- Discipline(s):

Mathematics and Statistics

Biometrics and Biostatistics
Probability and Statistics

Computer Sciences

Databases, Information Retrieval, and Web Search
Graphics and Visualization
Scientific Computing and Informatics

Life Health and Medical Sciences

Environmental Health
Epidemiology
Public Health

Communications and Graphics Design

Science Writing

- Veteran Status: None required