Opportunity Title: Analysis of U.S. Geospatial and Social Survey Data in Support of Environmental Epidemiology
Opportunity Reference Code: EPA-ORD-NERL-IO-2020-02

Organization	U.S. Environmental Protection Agency (EPA)
Reference Code	EPA-ORD-NERL-IO-2020-02
How to Apply	A complete application consists of:

OAK RIDGE INSTITUTE
FOR SCIENCE AND EDUCATION

ORISE GO

- An application
- Transcript(s) – For this opportunity, an unofficial transcript or copy of the student academic records printed by the applicant or by academic advisors from internal institution systems may be submitted. All transcripts must be in English or include an official English translation. Click here for detailed information about acceptable transcripts.
- 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@orau.org. Please include the reference code for this opportunity in your email.

The ORISE GO mobile app helps you stay engaged, connected and informed during your ORISE experience – from application, to offer, through your appointment and even as an ORISE alum!

Visit ORISE GO

GET IT ON Google Play

Download on the App Store

Application Deadline	3/25/2020 3:00:00 PM Eastern Time Zone
Description	***Applications will be reviewed on a rolling-basis.**

A research opportunity is currently available at the Environmental Protection Agency (EPA), Office of Research and Development (ORD), Center for Public Health and Environmental Assessment (CPHEA), located in Research Triangle Park, North Carolina. EPA ORD recently reorganized and this is the newly named Center. This was formerly in the National Exposure Research Laboratory (NERL).
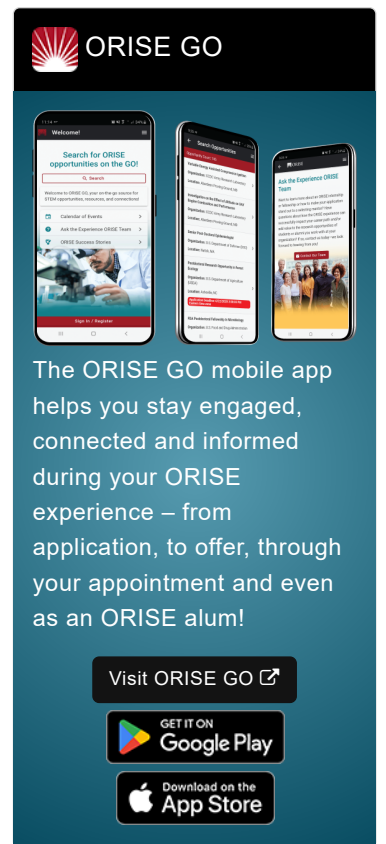
This research opportunity is to evaluate the beneficial influences of the natural environment on human well-being. This research opportunity focuses on the influence of local natural environment (e.g. residential neighborhood) on human health and well-being. The research participant may collaborate with a dynamic multidisciplinary team of Federal scientists and research fellows with expertise in environmental health, landscape ecology, remotely-sensed earth observations, and social surveys. The research project may involve geospatial and statistical analyses of large existing national databases including individual-level health survey data.

Under the guidance of a mentor, the participant may be involved in the following research activities: developing and computing indicators of ecosystem services; estimating exposure or dose; identifying and compiling relevant socioeconomic and additional environmental data; and modeling individual-level human physical and mental health outcomes using these variables. Analyses may explore land use and land cover within residential buffers, temporal and/or residential relocation effects, and climate and latitudinal variability that may influence the local natural environment's effect on health behaviors and outcomes.

The research participant will have the opportunity to support the development of manuscripts for submission to peer-reviewed scientific journals. The research participant may have the opportunity to attend at least one scientific conference to present research and continue professional development.

Anticipated Appointment Start Date: Spring/Summer 2020

This program, administered by ORAU through its contract with the U.S. Department of Energy

(DOE) to manage the Oak Ridge Institute for Science and Education (ORISE), was established through an interagency agreement between DOE and EPA. The initial appointment is for one year, but may be renewed upon recommendation of EPA and is contingent on the availability of funds. The participant will receive a monthly stipend commensurate with educational level and experience. Proof of health insurance is required for participation in this program. The appointment is full-time at EPA in the Research Triangle Park, North Carolina, area. Participants do not become employees of EPA, DOE or the program administrator, and there are no employment-related benefits.

Completion of a successful background investigation by the Office of Personnel Management (OPM) is required for an applicant to be on-boarded at EPA. OPM can complete a background investigation only for individuals, including non-US citizens, who have resided in the US for the past three years.

Qualifications

The qualified candidate should have received a doctoral degree in one of the relevant fields, or be currently pursuing the degree and will reach completion by June 1, 2020. Degree must have been received within five years of the appointment start date.

Preferred skills:

- Statistical and geospatial analysis and programming using ArcGIS, Python, SAS, and/or R
- Knowledge of ecosystem services

Eligibility Requirements

- **Degree:** Doctoral Degree received within the last 60 months or anticipated to be received by 6/1/2020 11:59:00 PM.
- **Discipline(s):**
  - **Computer, Information, and Data Sciences** (16 👁)
  - **Earth and Geosciences** (21 👁)
  - **Environmental and Marine Sciences** (14 👁)
  - **Life Health and Medical Sciences** (45 👁)
  - **Mathematics and Statistics** (10 👁)
  - **Other Non-Science & Engineering** (2 👁)
  - **Social and Behavioral Sciences** (27 👁)
- **Veteran Status:** Veterans Preference, degree received within the last 120 month(s).

Affirmation

I certify that I have lived in the United States for the past three years.