

**Opportunity Title:** EPA Air Quality, Public Health, and Energy Strategies Fellowship  
**Opportunity Reference Code:** EPA-OAR-2020-0001

**Organization** U.S. Environmental Protection Agency (EPA)

**Reference Code** EPA-OAR-2020-0001

**How to Apply** *Connect with ORISE...on the GO!* Download the new ORISE GO mobile app in the [Apple App Store](#) or [Google Play Store](#) to help you stay engaged, connected, and informed during your ORISE experience and beyond!

A complete application consists of:

- 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 recommendations. Click [here](#) for detailed information about recommendations.

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

**Application Deadline** 10/30/2020 3:00:00 PM Eastern Time Zone

**Description** \*Applications may be reviewed on a rolling-basis and this posting could close before the deadline. Click [here](#) for information about the selection process.

**EPA Office/Lab and Location:** A research opportunity is currently available with the U.S. Environmental Protection Agency (EPA), Office of Air and Radiation (OAR), Climate Protection Partnership Division (CPPD) located in Washington, DC.

**Research Project:** CPPD's State and Local Branch (SLB) works cooperatively with state, local, and tribal (S/L/T) governments to help them reduce greenhouse gas (GHG) and criteria pollutant emissions in ways that meet their own unique environmental, public health, energy, and economic priorities. This project will focus on conducting research to support the development of decision-support resources and tools to help S/L/T governments understand, quantify, and communicate the public health impacts of emission reduction policies and programs.

Under the guidance of a mentor, the participant will conduct research at the intersection of energy, climate change, air pollution, and public health, and assist in the development of associated models. The participant may conduct policy analysis using tools such as EPA's CO-Benefits Risk Assessment (COBRA) tool and Health-Benefits per Kilowatt-hour (BPK) values. Specific research may include:

- The current state of health benefits inclusion and/or quantification in climate and energy policymaking;
- Quantitative methods for assessing the health impacts of emission reduction policies, including reduced-form air quality modeling and long-term projections;
- The equity and environmental justice implications of emissions reduction policies, and best practices for policy/program design;
- The state of the science/literature on the health implications of electrification strategies; and
- The indoor environment impacts of energy policies.

**Learning Objectives:** The participant will have the opportunity to collaborate with a collegial team of skilled professionals and scientists. The participant will also have the opportunity to engage with



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senior EPA officials and other stakeholders, including S/L/T officials and NGOs.

**Mentor(s):** The mentor for this opportunity is Emma Zinsmeister ([zinsmeister.emma@epa.gov](mailto:zinsmeister.emma@epa.gov)). If you have questions about the nature of the research please contact the mentor(s).

**Anticipated Appointment Start Date:** Fall/Winter 2020. All start dates are flexible and vary depending on numerous factors. Click [here](#) for detailed information about start dates.

**Appointment Length:** The appointment will initially be for one year and may be renewed up to three or four additional years upon EPA recommendation and subject to availability of funding.

**Level of Participation:** The appointment is full-time.

**Participant Stipend:** The participant will receive a monthly stipend commensurate with educational level and experience. Click [here](#) for detailed information about full-time stipends.

**EPA Security Clearance:** Completion of a successful background investigation by the Office of Personnel Management (OPM) is required for an applicant to be on-boarded at EPA.

**ORISE Information:** 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. Participants do not become employees of EPA, DOE or the program administrator, and there are no employment-related benefits. Proof of health insurance is required for participation in this program. Health insurance can be obtained through ORISE.

**Questions:** Please see the [FAQ section](#) of our website. After reading, if you have additional questions about the application process please email [EPArpp@orau.org](mailto:EPArpp@orau.org) and include the reference code for this opportunity.

**Qualifications** The qualified candidate must have received a master's or doctoral degree in one of the relevant fields, or be currently pursuing the degree with completion by the appointment start date. Degree must have been received within five years of the appointment start date.

Preferred skills:

- Skills or experience in one or more of the following areas:
  - S/L/T environmental, energy, and transportation policies and programs;
  - Systematic literature reviews on complex environmental and public health topics;
  - Data and policies regarding energy efficiency, renewable energy, electrification, and other GHG/criteria pollutant reduction strategies;
  - Data and policies regarding the public health impacts of air pollution, especially fine particulate matter (PM<sub>2.5</sub>) and ozone (O<sub>3</sub>)
  - Air quality modeling, including reduced-form methodologies, and quantification of associated health and economic impacts;
  - Geographic information systems (GIS) software, ArcMap, and/or other data visualization software;
  - Quantifying and communicating the emissions, air quality, and health impacts of S/L/T government climate and energy policies

**Eligibility Requirements**

- **Citizenship:** U.S. Citizen Only
- **Degree:** Master's Degree or Doctoral Degree received within the last 60

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months or anticipated to be received by 12/18/2020 11:59:00 PM.

- **Discipline(s):**
  - **Chemistry and Materials Sciences** ([12](#))
  - **Communications and Graphics Design** ([6](#))
  - **Computer, Information, and Data Sciences** ([16](#))
  - **Earth and Geosciences** ([21](#))
  - **Engineering** ([27](#))
  - **Environmental and Marine Sciences** ([14](#))
  - **Life Health and Medical Sciences** ([45](#))
  - **Mathematics and Statistics** ([10](#))
  - **Other Non-Science & Engineering** ([5](#))
  - **Physics** ([2](#))
  - **Science & Engineering-related** ([1](#))
  - **Social and Behavioral Sciences** ([28](#))
- **Veteran Status:** Veterans Preference, degree received within the last 120 month(s).