

Opportunity Title: NCSES Research Ambassadors Program-Environmental Statistics Innovation

Opportunity Reference Code: NSF-NCSES-2024-0002

Organization National Science Foundation (NSF)

Reference Code NSF-NCSES-2024-0002

Application Deadline 4/22/2024 11:59:00 PM Eastern Time Zone

Description National Center for Science and Engineering Statistics (NCSES)

The National Center for Science and Engineering Statistics (NCSES) — part of the National Science Foundation (NSF) — is the world’s premier source for data and information on the science and engineering enterprise. NCSES is one of only thirteen principal statistical agencies in the U.S. federal government. You will have the opportunity to independently utilize your skills and engage with experts in innovative ideas to move the proposed research forward. NCSES leads several cutting-edge research projects and initiatives that not only further its mission of collecting and disseminating objective information on the science and engineering enterprise, but also will provide you with an exclusive access to high quality data sets and experiences in data analysis, statistics, and more.

- Are you looking for real world experience in cutting edge research from the world's premier source for data and information on the science and engineering enterprise?
- Do you want to learn from top researchers and subject matter experts in data analysis, statistics, economics, science policy, research and more?
- Do you want to develop skills within and outside of your field of study and interest and earn a competitive edge?
- Do you want to network with your peers, travel, and participate in educational events?

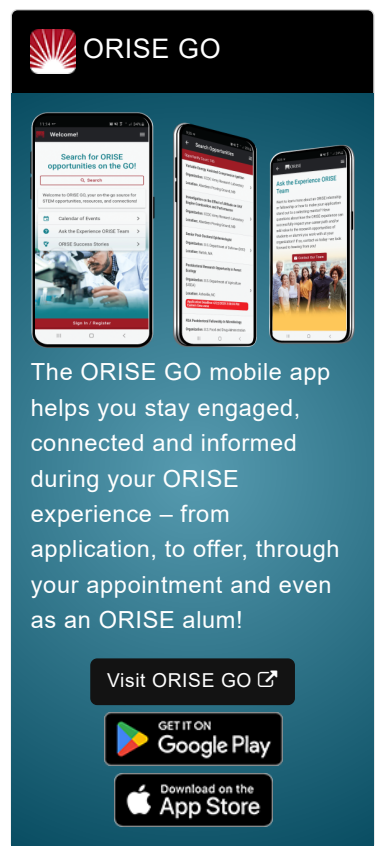
If you answered *yes* to any of these questions, then the NCSES Research Ambassadors Program is for you!

For more information about NSF-NCSES, please visit <https://ncses.nsf.gov/>.

What will I be doing?


As a fellow in the NCSES Research Ambassadors Program-Environmental Statistics Innovation, you will have the opportunity to explore a federal career and gain a competitive edge as you apply your education, talent, and skills in a variety of settings. Fellowships are based on assigned research or technical projects.


The goal of this program is to engage in the development of evidence-based policies directed at environmental innovation, sustainability, and climate change by exploiting the wealth of text-based information on environmental and climate research and development (R&D) and innovation. The set of analysis tools, suitable for addressing the priority policy questions, will draw on advanced modelling to exploit the wealth of information within the data. The series of analytical outputs will fulfill the stated priorities and help inform future efforts within the project as well as contribute to the development of evidence-based policy. Activities may




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include, but are not limited to:

- Identifying publicly available data sources that can be used to identify business innovation with environmental benefits.
- Developing Natural Language Processing (NLP) approaches to environmental innovation classification
- Developing environmental innovation identification models based on Machine Learning (ML) and Artificial Intelligence (AI) approaches.
- Collaborating with international organizations on efforts related to the management and analysis of administrative data on environmental statistics.
- Comparing and contrasting results of this research with forthcoming NCSES survey data.
- Developing knowledge of state-of-the-art statistical, analytical, and visualization methods and techniques through reading, meetings with federal and non-federal researchers and analysts, and participation in professional meetings.

You may also have the opportunity to make use of, engage, and improve key NCSES and National Science Board products such as Science and Engineering Indicators, the National Patterns of R&D Resources, the Diversity in STEM Report, and the Annual Business Survey.

Your project will be assigned based on funding availability and mentor selection. You will learn more about project opportunities during the application process. ORISE will share your assigned project with you before you accept an appointment offer.

Questions about this opportunity should be sent to NSF-NCSES@orise.orau.gov.

Where will I be located?

This Research Fellowship is a hybrid role and requires in-person participation at the NSF headquarter in Alexandria, VA.

Participant Benefits

Participants will receive a stipend to be determined by NCSES. Stipends are typically based on the participant's academic standing, discipline, experience, and research facility location.

Other benefits may include the following:

- Health Insurance Supplement. Participants are eligible to purchase health insurance through ORISE.
- Training and Travel allowance for professional development.

Duration

This Research Fellowship is a 12-month appointment and can be extended for a total period of five years based on performance and need. **Note:** The participant will not enter into an employee/employer relationship with ORISE, ORAU, DOE, NSF, or any other office or agency. Instead, the

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participant will be affiliated with ORISE for the administration of the appointment through the ORISE appointment letter and Terms of Appointment.

- Eligibility Requirements**
- **Degree:** Currently pursuing a Master's Degree or Doctoral Degree to be received by 7/31/2024 12:00:00 AM.
 - **Discipline(s):**
 - **Business** ([11](#))
 - **Computer, Information, and Data Sciences** ([17](#))
 - **Mathematics and Statistics** ([11](#))
 - **Social and Behavioral Sciences** ([30](#))
 - **Age:** Must be 18 years of age