Opportunity Title: USGS Postdoctoral Fellowship for Understanding and Managing Brook Trout Declines in Shenandoah National Park
Opportunity Reference Code: DOI-USGS-2023-12

Organization	U.S. Department of the Interior (DOI)
Reference Code	DOI-USGS-2023-12
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 package 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. Click **Here** for detailed information about acceptable transcripts.
- A current resume/CV
- Two educational or professional recommendations. At least one recommendation must be submitted in order for the mentor to view your application.

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

Application Deadline	12/8/2023 3:00:00 PM Eastern Time Zone
Description	**_*Applications will be reviewed on a rolling-basis._**

USGS Office/Lab and Location: A research opportunity is currently available with the U.S. Geological Survey (USGS) at the Eastern Ecological Science Center located in Kearneysville, West Virginia. **Remote participation will be considered.**

The USGS mission is to monitor, analyze, and predict current and evolving dynamics of complex human and natural Earth-system interactions and to deliver actionable intelligence at scales and timeframes relevant to decision makers. As the Nation's largest water, earth, and biological science and civilian mapping agency, USGS collects, monitors, analyzes, and provides science about natural resource conditions, issues, and problems.

Research Project: The USGS Eastern Ecological Science Center is searching for a highly motivated quantitative researcher or statistician interested in participating in a suite of ecology, spatial modeling, and brook trout ecology research. This opportunity will consist primarily of developing and applying analytical approaches to improve our understanding of the status and trends of brook trout populations in Shenandoah National Park, Virginia. For instance, ongoing projects include hierarchical model development to evaluate the relative support for candidate mechanisms controlling brook trout abundance, including temporal changes in flow, temperature, and acid deposition. There would be opportunities to participate in field research if desired, though this is not a requirement of the appointment. Additional information can be found at https://www.usgs.gov/staff-profiles/nathaniel-hitt and https://www.usgs.gov/staff-profiles/benjamin-h-letcher.

Learning Objectives: Through this research opportunity, the selected participant will improve upon their skills in quantitative ecology, data

visualization and management.

Mentor: The mentor for this opportunity is Nathaniel Hitt
(nhitt@usgs.gov). If you have questions about the nature of the research
please contact the mentor.

Anticipated Appointment Start Date: September 2023. Start date is
flexible and will depend on a variety of factors.

Appointment Length: The appointment will initially be for two years but
may be extended upon recommendation of USGS and is contingent on the
availability of funds.

Level of Participation: The appointment is full-time.

Participant Stipend: The participant will receive a monthly stipend
commensurate with educational level and experience. **The current stipend
for this opportunity is $75,000 - $85,000 per year plus $5,600 to defray
the cost of health insurance.**

Citizenship Requirements: This opportunity is available to U.S. citizens, Lawful
Permanent Residents (LPR) and foreign nationals.

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 USGS. Participants
do not become employees of USGS, 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: If you have questions about the application process please
email USGS@orau.org and include the reference code for this opportunity.

Qualifications The qualified candidate should have received a doctoral degree in one of
the relevant fields listed or be currently pursuing the degree with
completion before the appointment start date.

Preferred Skills:

- Ability to assist in experimental design and in guiding selection of
  analytical methods.
- Knowledge of R is critical, with experience in ArcGIS or other GIS
  platforms being beneficial.
- Expertise/experience with Bayesian population models
- Knowledge of ecological principals, with a focus on freshwater fish
  populations and communities.

**Eligibility
Requirements**
- **Degree:** Doctoral Degree.
- **Discipline(s):**
  - **Environmental and Marine Sciences** (7 👁)
  - **Life Health and Medical Sciences** (6 👁)

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- **Mathematics and Statistics** ([2 👁])