

**Opportunity Title:** Research Internship at USDA-National Laboratory for Agriculture and the Environment

**Opportunity Reference Code:** USDA-ARS-MW-2024-0121

**Organization** U.S. Department of Agriculture (USDA)

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**How to Apply** **Connect with ORISE...on the GO!** Download the new ORISE GO mobile app in the Apple 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. 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

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

**Application Deadline** 4/26/2024 3:00:00 PM Eastern Time Zone

**Description** **\*Applications are reviewed on a rolling-basis.**

**ARS Office/Lab and Location:** A research opportunity is available with the National Laboratory for Agriculture and The Environment (NLAE) within the U.S. Department of Agriculture (USDA), Agricultural Research Service (ARS) located in Ames, Iowa.

The Agricultural Research Service (ARS) is the U.S. Department of Agriculture's chief scientific in-house research agency with a mission to find solutions to agricultural problems that affect Americans every day from field to table. ARS will deliver cutting-edge, scientific tools and innovative solutions for American farmers, producers, industry, and communities to support the nourishment and well-being of all people; sustain our nation's agroecosystems and natural resources; and ensure the economic competitiveness and excellence of our agriculture. The vision of the agency is to provide global leadership in agricultural discoveries through scientific excellence.

The NLAE is a transdisciplinary lab whose mission is to generate information addressing critical problems in agriculture and watershed management to develop innovative solutions which increase the efficiency of agriculture systems and reduce environmental risk.

**Research Project:** A research internship is available in the Emmett and Chatterjee labs studying carbon and nitrogen cycling and greenhouse gas emissions from agricultural soils. In collaboration with the mentors, the participant will assist in field and lab experiments investigating agroecosystem management influence on soil C and N fluxes, plant-soil interactions and nitrous oxide emissions from soil.

**Learning Objectives:** Participants will learn field and lab methods of soil science, soil microbiology and soil gas flux. In addition to the team



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research project, the participants will have the opportunity to interact with an interdisciplinary team of scientists at NLAE spanning fields of hydrology, agronomy, soil science and micro-meteorology.

**Mentor(s):** The mentor for this opportunity is Bryan Emmett ([bryan.emmett@usda.gov](mailto:bryan.emmett@usda.gov)). If you have questions about the nature of the research, please contact the mentor(s).

**Anticipated Appointment Start Date:** May 2024. Start date is flexible and will depend on a variety of factors.

**Appointment Length:** The appointment will initially be for 3 months, but may be renewed upon recommendation of ARS 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.

**Citizenship Requirements:** This opportunity is available to U.S. citizens only.

**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 ARS. Participants do not become employees of USDA, ARS, 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 visit our [Program Website](#). After reading, if you have additional questions about the application process, please email [ORISE.ARS.Midwest@orau.org](mailto:ORISE.ARS.Midwest@orau.org) and include the reference code for this opportunity.

**Qualifications** The qualified candidate should be currently pursuing or have received a bachelor's degree in the one of the relevant fields (e.g. agronomy, environmental science or microbiology). Degree must have been received with the last 2 years or currently pursuing.

- Eligibility Requirements**
- **Citizenship:** U.S. Citizen Only
  - **Degree:** Bachelor's Degree received within the last 24 months or currently pursuing.
  - **Overall GPA:** 3.00
  - **Discipline(s):**
    - **Chemistry and Materials Sciences** ([12](#)👁)
    - **Communications and Graphics Design** ([2](#)👁)
    - **Computer, Information, and Data Sciences** ([17](#)👁)
    - **Earth and Geosciences** ([21](#)👁)
    - **Engineering** ([27](#)👁)

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- **Environmental and Marine Sciences** ([14](#) )
- **Life Health and Medical Sciences** ([51](#) )
- **Mathematics and Statistics** ([11](#) )
- **Physics** ([16](#) )
- **Science & Engineering-related** ([2](#) )
- **Social and Behavioral Sciences** ([29](#) )
- **Age:** Must be 18 years of age