

**Opportunity Title:** USDA-ARS Postdoctoral Research Fellowship in Entomology

**Opportunity Reference Code:** USDA-ARS-NE-2023-0352

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

**Reference Code** USDA-ARS-NE-2023-0352

**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
- Transcripts – [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** 11/10/2023 3:00:00 PM Eastern Time Zone

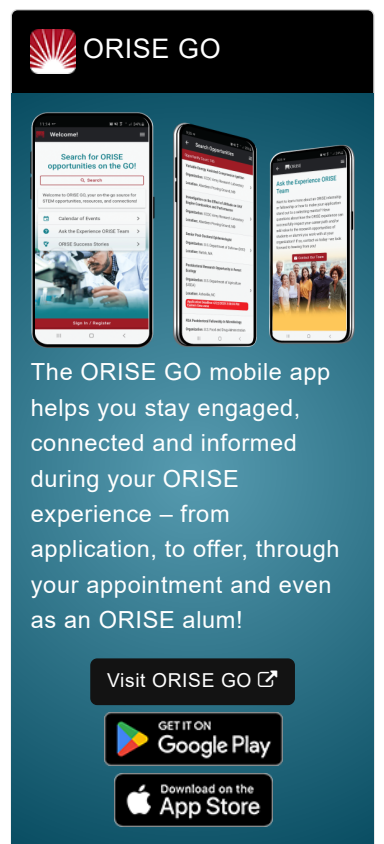
**Description** \*Applications are reviewed on a rolling-basis.

**ARS Office/Lab and Location:** A postdoctoral research opportunity is available with the U.S. Department of Agriculture (USDA), Agricultural Research Service (ARS), Systematic Entomology Laboratory, located at the National Museum of Natural History in Washington, DC.

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.


**Research Project:** Under the guidance of a mentor, the participant will help investigate the systematics and biology of the non-native pests of Agrilus, including the emerald ash borer using molecular techniques resulting in the publication of a phylogeny for the genus and new molecular resources for identification. This will include exploratory methods for the optimal extraction of DNA, high-throughput sequencing, and phylogenomic analysis of historic, degraded or fragments of unique specimens, such as holotypes. The individual will also help research the development of a portal for the identification and biology of Agrilus worldwide. The individual will use scientific literature, identification keys, and study specimens in the National Museum of Natural History and other collections.


**Learning Objectives:** The participant will develop new skills in modern genomic techniques and bioinformatic skills from multiple scientists at the National Museum of Natural History. The candidate will also learn database development and how to use imaging equipment for the diagnosis of a broad range of species in Agrilus.


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**Mentor(s):** The mentors for this opportunity is Michael Gates ([michael.gates@usda.gov](mailto:michael.gates@usda.gov)). If you have questions about the nature of the research, please contact the mentor.

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

**Appointment Length:** The appointment will initially be for six 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, Lawful Permanent Residents (LPR), and foreign nationals. Non-U.S. citizen applicants should refer to the [Guidelines for Non-U.S. Citizens Details page](#) of the program website for information about the valid immigration statuses that are acceptable for program participation.

**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.Northeast@orau.org](mailto:ORISE.ARS.Northeast@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, or be currently pursuing the degree with completion before October 30, 2023.

Preferred skills:

- Knowledge of the principles, theories, and practices of morphology, molecular - including high-throughput sequencing and targeted-enrichment - and biological systematic methods and techniques, entomology and evolutionary theory
- Knowledge of the classification, literature, and morphology of Hymenoptera
- Skills in data analysis and data management

- Eligibility Requirements**
- **Degree:** Doctoral Degree.
  - **Discipline(s):**
    - **Communications and Graphics Design** ([1](#))
    - **Life Health and Medical Sciences** ([2](#))