

Opportunity Title: USDA-ARS Post-graduate Plant Pathology Research

Fellowship

Opportunity Reference Code: USDA-ARS-NE-2023-0142A

Organization U.S. Department of Agriculture (USDA)

Reference Code USDA-ARS-NE-2023-0142A

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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 may be reviewed on a rolling-basis.

ARS Office/Lab and Location: An postgraduate research opportunity is currently available with the U.S. Department of Agriculture (USDA), Agricultural Research Service (ARS), within the Foreign Disease/Weed Science Unit (FDWSRU) in Frederick, Maryland.

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 ARS-FDWSRU is a unique governmental research facility with a mission to combat invasive organisms that endanger U.S. agriculture. These organisms can be foreign pathogens (bacteria, viruses, fungi, oomycetes) that cause disease on economically important crops or invasive weeds that endanger crops or rangeland. Our 43,000 square foot research facility provides a wide range of labs, greenhouses, and growth chambers, including a 10,000 square foot BSL-3 containment facility, plus powerful computational and bioinformatic tools through the ARS SciNet platform.

Research Project: A post-graduate research fellowship is currently available to study oomycete and virus pathogens of corn and cacao. Under the guidance of a mentor, the participant will have the opportunity to conduct research to help increase knowledge of disease epidemiology. Ultimately,



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this project aims to contribute to more effective disease management.

Learning Objectives: Under the guidance of a mentor, learning opportunities include:

- Plant cultivation
- General pathogen maintenance
- DNA extraction
- Viral gene detection and amplification through polymerase chain reaction (PCR)
- Sanger sequencing to confirm pathogen identity

Mentor(s): The mentor for this opportunity is Alina Puig (alina.puig@usda.gov). If you have questions about the nature of the research, please contact the mentor(s).

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

Appointment Length: The appointment will initially be for one year 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 and Lawful Permanent Residents (LPR).

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@ornl.gov and include the reference code for this opportunity.

Qualifications The qualified candidate should have received a master's degree in one of the relevant fields.

Preferred Skills:

- Work both independently and as part of a diverse team
- Experience with plant pathogens
- Experience with plant cultivation
- Experience with molecular biology techniques, including nucleic acid extraction, PCR, sequencing, and sequence analysis

Eligibility Requirements

- **Citizenship:** LPR or U.S. Citizen
- **Degree:** Master's Degree.
- **Discipline(s):**

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