Opportunity Title: USDA-ARS Postdoctoral Research Opportunity in Precision Agriculture

Opportunity Reference Code: USDA-ARS-SEA-2025-0263

Organization	U.S. Department of Agriculture (USDA)
Reference Code	USDA-ARS-SEA-2025-0263
How to Apply	*To submit your application, scroll to the bottom of this opportunity and click APPLY.*

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
- A copy of an abstract or reprint of an article

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

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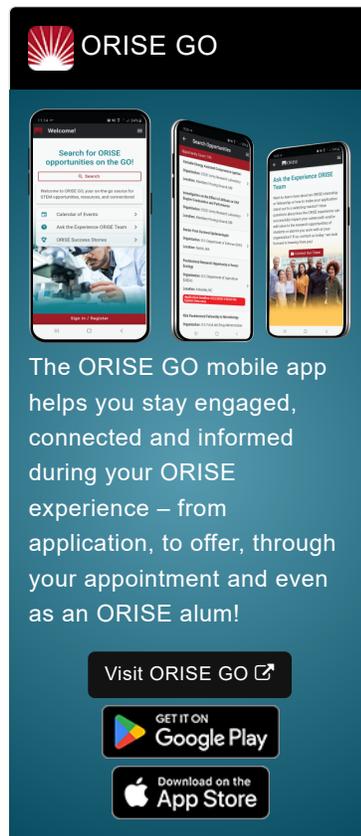|	
Application Deadline	3/13/2026 3:00:00 PM Eastern Time Zone
Description	*Applications are reviewed on a rolling-basis.*

ARS Office/Lab and Location: A research opportunity is currently available with the U.S. Department of Agriculture (USDA), Agricultural Research Service (ARS), located in New Orleans, Louisiana.

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: The participant will be exposed to environmental and agricultural research to develop marker-driven prediction models for precision agriculture. Under the gudiance of the mentor, the participant will engage in environmental and agricultural research to help develop AI forecasting models for biotic/abiotic stress response and tolerance. Target applications will include simulation of emerging industry problems and real time forecasting of stress tolerance for varietal selection.

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Learning Objectives: Participant will gain laboratory, field, and programming skills to develop the digital twin and other AI models using ground and above-ground sensors and metabolite analysis.

Mentor(s): The mentor for this opportunity is Sophie Uchimiya (sophie.uchimiya@usda.gov). If you have questions about the nature of the research, please contact the mentor(s).

Anticipated Appointment Start Date: February 2026. 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. **The anticipated stipend range is $70,000 - $80,000 annually.**

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.Southeast@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. Degree must have been received within the past five years.
Stipend	$70,000.00 – $80,000.00 Yearly
Point of Contact	Janeen

Eligibility Requirements	• **Citizenship:** U.S. Citizen Only
	• **Degree:** Doctoral Degree.
	• **Discipline(s):**
	  ○ **Chemistry and Materials Sciences** (1 👁)
	  ○ **Computer, Information, and Data Sciences** (1 👁)
	  ○ **Life Health and Medical Sciences** (3 👁)

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- **Veteran Status:** Veterans Preference, degree received within the last
120 month(s).