

Opportunity Title: USDA-ARS Plant Genetics Internship

Opportunity Reference Code: USDA-ARS-2022-0023

Organization U.S. Department of Agriculture (USDA)

Reference Code USDA-ARS-2022-0023

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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. All transcripts must be in English or include an official English translation. 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 5/31/2022 3:00:00 PM Eastern Time Zone

Description *Applications may be reviewed on a rolling-basis and this posting could close before the deadline.

ARS Office/Lab and Location: A research opportunity is currently available with the U.S. Department of Agriculture (USDA), Agricultural Research Service (ARS) Cereal Crops Research Unit located in Madison, Wisconsin.

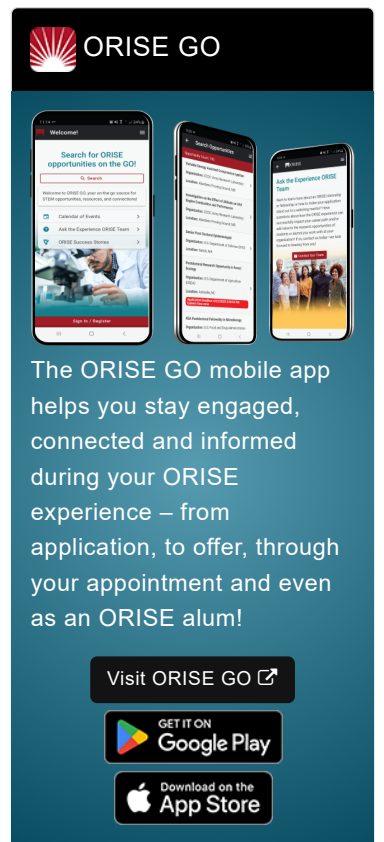
The Agricultural Research Service (ARS) is the U.S. Department of Agriculture's chief scientific in-house research agency with a mission to find solutions to agricultural problems that affect Americans every day from field to table. ARS will deliver cutting-edge, scientific tools and innovative solutions 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: This project will provide the participant with a hands-on research experience in research associated with seed germination and barley malting quality.

Learning Objectives: The selected participant will learn how to collect data on the effect of ozone-induced reactive oxygen species (ROS) on barley seed germination. Additionally, the participant will collaborate with other research staff to learn how to conduct malting quality assays that includes enzyme activity, estimating protein content, beta glucan content.


Mentor(s): The mentor for this opportunity is Ramamurthy Mahalingam (mali.mahalingam@usda.gov). If you have questions about the nature of the research please contact one of the mentors.


Anticipated Appointment Start Date: Spring 2022. Start date is flexible and will depend on a




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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) 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 USDA-ARS@ornl.gov and include the reference code for this opportunity.

Qualifications The qualified candidate should have received a bachelor's degree in one of the relevant fields, or be currently pursuing the degree with completion by the end of May 2022. Degree must have been received within the past five years.

Experience working in a molecular biology laboratory is preferred.

- Eligibility Requirements**
- **Citizenship:** LPR or U.S. Citizen
 - **Degree:** Bachelor's Degree received within the last 60 months or anticipated to be received by 5/31/2022 11:59:00 PM.
 - **Overall GPA:** 2.75
 - **Discipline(s):**
 - **Life Health and Medical Sciences** ([8](#) )
 - **Veteran Status:** Veterans Preference, degree received within the last 120 month(s).