

**Opportunity Title:** USDA-ARS Postdoctoral Fellowship in Plant Genetics & Genomics

**Opportunity Reference Code:** USDA-ARS-2021-0160

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

**Reference Code** USDA-ARS-2021-0160

**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. 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** 8/3/2021 3:00:00 PM Eastern Time Zone

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

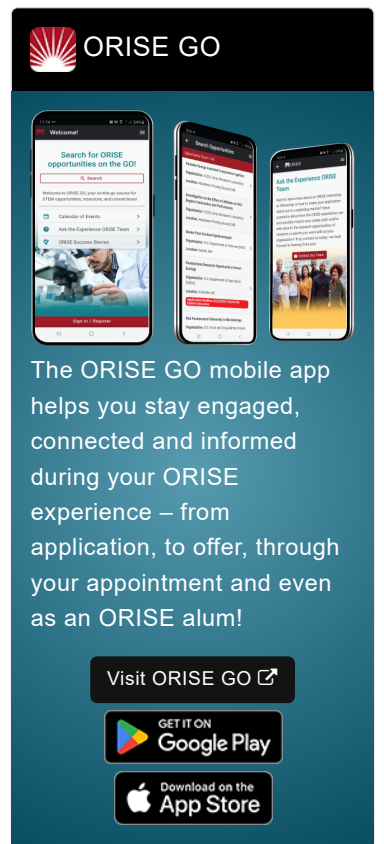
**ARS Office/Lab and Location:** Two research opportunities are currently available with the U.S. Department of Agriculture (USDA), Agricultural Research Service (ARS), Western Regional Research Center, Crop Improvement and Genetics Research Unit located in Albany, California.

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 selected participants will take part in research projects to improve wheat agronomic traits and grain quality using genetics, molecular biology, genomics, and genome editing approaches.


**Learning Objectives:** Selected participant will learn to work with crop with complex genomes and participate in the identification and characterization of actors/genes that control traits of economic importance. The participant will learn to be proficient in the use NGS data for transcriptome analysis, marker development, gene/QTL discovery.


**Mentor(s):** The mentor for this opportunity is Debbie Laudencia-Chingcuanco ([Debbie.laudencia@usda.gov](mailto:Debbie.laudencia@usda.gov)). If you have questions about the nature of the research please




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contact the mentor(s).

**Anticipated Appointment Start Date:** **October 1, 2021 or earlier.** 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, 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 [USDA-ARS@ornl.gov](mailto:USDA-ARS@ornl.gov) 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 by the end of August 2021. Degree must have been received within the past five years.

Preferred skills:

- Ability to work in a team environment
- Strong oral and written communication skills
- A strong background knowledge in statistics
- Hands-on experience with molecular techniques for DNA, RNA, and protein analysis in plant systems
- Experience with tools in bioinformatics
- Experience with transcriptomics, NGS, QTL mapping, GWAS data analysis

**Eligibility Requirements**

- **Degree:** Doctoral Degree received within the last 60 months or anticipated to be received by 8/31/2021 11:59:00 PM.
- **Discipline(s):**
  - **Life Health and Medical Sciences** ([46](#) )
- **Veteran Status:** Veterans Preference, degree received within the last 120 month(s).