

Opportunity Title: USDA-ARS Postdoctoral Plant Population Genomics

Fellowship

Opportunity Reference Code: USDA-ARS-2020-0190

Organization U.S. Department of Agriculture (USDA)

Reference Code USDA-ARS-2020-0190

How to Apply 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.

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Application Deadline 12/11/2020 3:00:00 PM Eastern Time Zone

Description *Applications are 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), Vegetable Crops Research Unit (VCRU) located in Madison, Wisconsin.

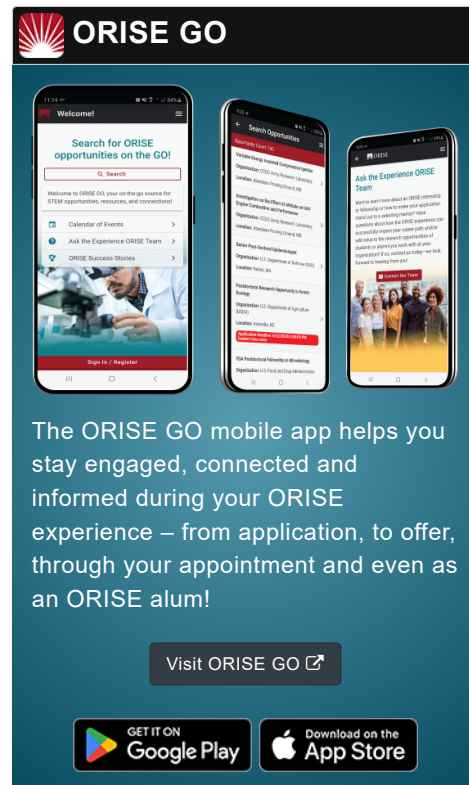
Research Project: The mission of the laboratory is gene flow and pollinators. We examine different aspects of this question, from pollinators moving genes, to introgression of cultivar genes into wild plant populations, to impact of visual and olfactory plant traits on insects, and relationships between gene flow, selection, genetic diversity and population structure. Under the guidance of a mentor, the participant will perform population genetics/genomics analyses on SNP data obtained using genotyping by sequencing. The participant may also collect further samples as needed for the study. The study will concentrate on genetic diversity, population structure and selection. The participant will also analyze data and write manuscripts for submission to scientific journals.

Learning Objectives: Throughout the course of this research project, the participant will improve his/her knowledge of using SNP data to examine gene flow, genetic diversity, introgression, population structure and/or selection. The participant will be encouraged to present the results at scientific meetings.

Mentor(s): The mentor for this opportunity is Johanne Brunet (Johanne.Brunet@usda.gov). If you have questions about the nature of the research please contact the mentor(s).

Anticipated Appointment Start Date: October 2020. 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.



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Level of Participation: The appointment is full-time.

Participant Stipend: The participant(s) 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@oraui.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.

Preferred skills:

- Previous experience identifying SNPs from genotypic by sequencing data
- Previous experience performing population genetic analyses on SNP data
- Experience with Genomic analyses

Eligibility Requirements

- **Degree:** Doctoral Degree.
- **Overall GPA:** 3.20
- **Discipline(s):**
 - **Life Health and Medical Sciences** (5 👁)