

Opportunity Title: Postgraduate Research Opportunity in Molecular Biology Laboratory Techniques

Opportunity Reference Code: USDA-ARS-2020-0011

Organization U.S. Department of Agriculture (USDA)

Reference Code USDA-ARS-2020-0011

How to 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. 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.

If you have questions, send an email to USDA-ARS@oraui.org. Please include the reference code for this opportunity in your email.

Application Deadline 2/14/2020 3:00:00 PM Eastern Time Zone

Description *Applications will be reviewed on a rolling-basis.

A research opportunity is available with the U.S. Department of Agriculture (USDA), Agricultural Research Service (ARS), Dairy Forage Research Center located in Milwaukee, Wisconsin.

Under the guidance of a mentor, the participant will learn real-world laboratory techniques involving molecular biology, microbiology and cell-culture with the aim of developing an understanding of how stress, nutrition, and other factors, affect the innate immune response in rainbow trout cell-lines and rainbow trout.

During this research opportunity, the participant will learn the following:

- good laboratory procedures for a molecular biology environment
- nucleic acid extracting and quantification
- cDNA production
- quantitative real-time PCR
- protein assays
- animal cell-culture techniques
- experience with handling animals and animal care

This will expose the participant to a research laboratory, allowing him/her the opportunity to learn how to apply their knowledge, skills and abilities to a real life sciences laboratory environment.

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. The initial appointment is for one year, but may be renewed upon recommendation of ARS and is contingent on the availability of funds. The participant will receive a monthly stipend commensurate with educational level and experience. Proof of health insurance is required for participation in this program. The appointment is full-time at ARS in the Milwaukee, Wisconsin, area. Participants do not become employees of USDA, ARS, DOE or the program administrator, and there are no employment-related benefits.



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This opportunity is available to U.S. citizens only.

For more information about the ARS Research Participation Program, please visit the [Program Website](#).

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

Candidates that live within the local commuting distance (~20 minutes from the appointment location) are preferred.

Preferred skills:

- Basic understanding of safe laboratory techniques
- Knowledge of molecular biology and microbiology
- Ability to make routine laboratory calculations
- Ability to work with spreadsheets
- Strong organizational and computer skills

- Eligibility Requirements**

- **Citizenship:** U.S. Citizen Only
 - **Degree:** Bachelor's Degree or Master's Degree.
 - **Discipline(s):**
 - **Environmental and Marine Sciences** ([9](#) 👁)
 - **Life Health and Medical Sciences** ([45](#) 👁)