

**Opportunity Title:** USDA Enhancing Malt Quality Through Evaluation Barley and Malt Characteristics

**Opportunity Reference Code:** USDA-ARS-MWA-2025-0082A

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

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**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

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

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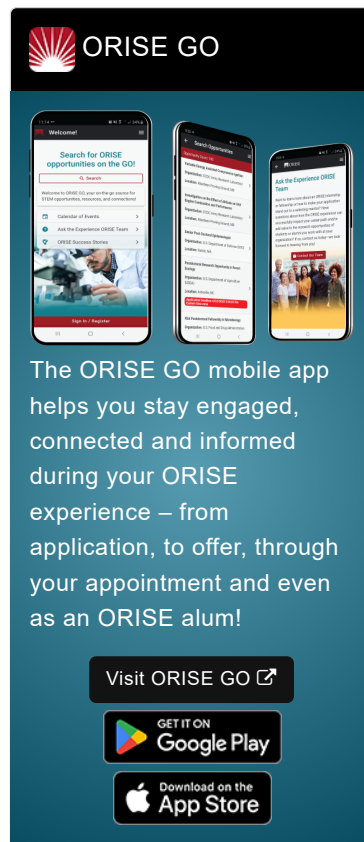
**Description** \*Applications are reviewed on a rolling-basis.

**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 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:** The fellows will be performing research toward the improvement of the malting quality of barley lines produced in US breeding programs. Research performed will include generating malting programs for barley lines submitted by collaborating scientists, performing wet lab-based experiments to collect phenotypic data from malts produced from project and analyzing the malt quality data to assess potential gains in the brewing and distilling process that can be attributed to barley variety or processing methods.

**Learning Objectives:** Under the guidance of a mentor, the fellows will become versed in the science of malting through the grading of raw grain,



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the processing of grain into malts using established micro malting procedures and the wet lab protocols including quantifying of grain protein and moisture, assessing hydrolytic enzyme activity, measuring of free amino nitrogen concentration and extract potential, and performing modified mashing procedures. Summarized data will be disseminated to collaborating scientists located across the US.

**Mentor(s):** The mentor for this opportunity is Jason Walling ([jason.walling@usda.gov](mailto:jason.walling@usda.gov)). If you have questions about the nature of the research, please contact the mentor(s).

**Anticipated Appointment Start Date:** 2025, as soon as possible. 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 or part 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 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.Midwest@orau.org](mailto:ORISE.ARS.Midwest@orau.org) and include the reference code for this opportunity.

**Qualifications** The qualified candidate should have received or be currently pursuing a bachelor's, master's, or doctoral degree in one of the relevant fields.

**Point of Contact** [Janeen](#)

- Eligibility Requirements**
- **Citizenship:** U.S. Citizen Only
  - **Degree:** Bachelor's Degree, Master's Degree, or Doctoral Degree.
  - **Discipline(s):**
    - Life Health and Medical Sciences ([7](#)👁)