

**Opportunity Title:** USDA-ARS Undergraduate Student Internship in Bioinformatics

**Opportunity Reference Code:** USDA-ARS-2022-0054

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

**Reference Code** USDA-ARS-2022-0054

**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.

**Description** \*Applications may be reviewed on a rolling-basis, and this posting will remain open until a qualified candidate is identified.

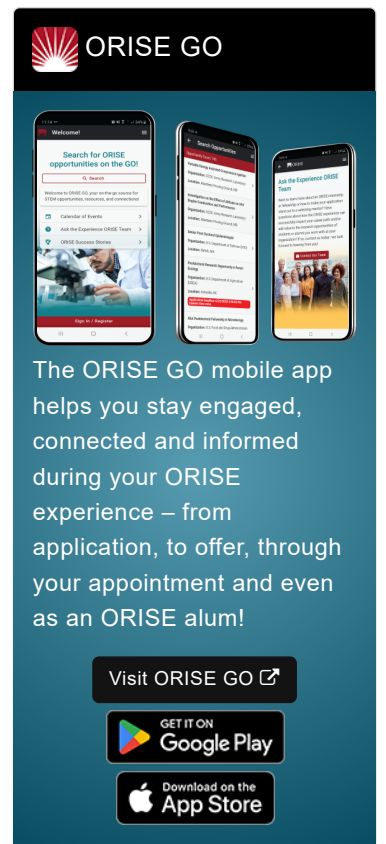
**ARS Office/Lab and Location:** A research opportunity in Bioinformatics is available with the U.S. Department of Agriculture (USDA), Agricultural Research Service (ARS), Sustainable Agriculture Systems Laboratory in Beltsville, Maryland.

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.

The Sustainable Agricultural Systems Laboratory solves problems facing the conversion of US agricultural into a long lasting resilient food, fiber and fuel production system. The mission of the Maul lab is to ensure agricultural productivity by understanding how agricultural management interacts with genotypical and environmental factors supporting resilient and resistant ecosystems.


**Research Project:** The research project is investigating the genetic composition of organisms that have shown promise as bio control or plant beneficial inoculations in agricultural production systems. The participant will assist Scientists in a variety of activities including: microbiome community analysis, prokaryote and eukaryote whole genome sequencing, assembly, and annotation.


**Learning Objectives:** The participant will learn how to process raw DNA and




**ORISE GO**

The ORISE GO mobile app helps you stay engaged, connected and informed during your ORISE experience – from application, to offer, through your appointment and even as an ORISE alum!

Visit ORISE GO 

GET IT ON  
 Google Play

Download on the  
 App Store

**Opportunity Title:** USDA-ARS Undergraduate Student Internship in Bioinformatics

**Opportunity Reference Code:** USDA-ARS-2022-0054

RNA sequence and derive likely gene candidates likely to be in the mechanism or regulation of biocontrol organisms. The participant will have the opportunity to present the research in posters and papers intended for the national and international scientific community.

**Mentor(s):** The mentor for this opportunity is Dr. Jude Maul ([jude.maul@usda.gov](mailto:jude.maul@usda.gov)). If you have questions about the nature of the research please contact the mentor(s).

**Anticipated Appointment Start Date:** As soon as a qualified candidate is identified. 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 part-time (30 hours per week).

**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.Northeast@orau.org](mailto:ORISE.ARS.Northeast@orau.org) and include the reference code for this opportunity.

**Qualifications** The qualified candidate should be currently pursuing a bachelor's degree in one of the relevant fields.

Experience working with bioinformatic software, genome assembly and gene prediction is preferred.

- Eligibility Requirements**
- **Citizenship:** U.S. Citizen Only
  - **Degree:** Currently pursuing a Bachelor's Degree.
  - **Discipline(s):**
    - **Computer, Information, and Data Sciences** (3 )
    - **Life Health and Medical Sciences** (2 )