

Opportunity Title: USDA-ARS Bovine Tuberculosis Research Postdoctoral Fellow

Opportunity Reference Code: USDA-ARS-2020-0135

Organization U.S. Department of Agriculture (USDA)

Reference Code USDA-ARS-2020-0135

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.

Application Deadline 8/4/2020 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: A research opportunity is currently available with the U.S. Department of Agriculture (USDA), Agricultural Research Service (ARS), National Animal Disease Center located in Ames, Iowa.

Research Project: Under the guidance of a mentor, the selected participant will study the bovine immune response to Mycobacterium bovis infection with the overall goal of developing intervention strategies that will prevent or control tuberculosis in domestic livestock or other reservoir hosts. The participant will define the cellular and molecular immune mechanisms involved in the pathogenesis of bovine tuberculosis by integrating cutting-edge molecular approaches with traditional cellular and molecular biological techniques.

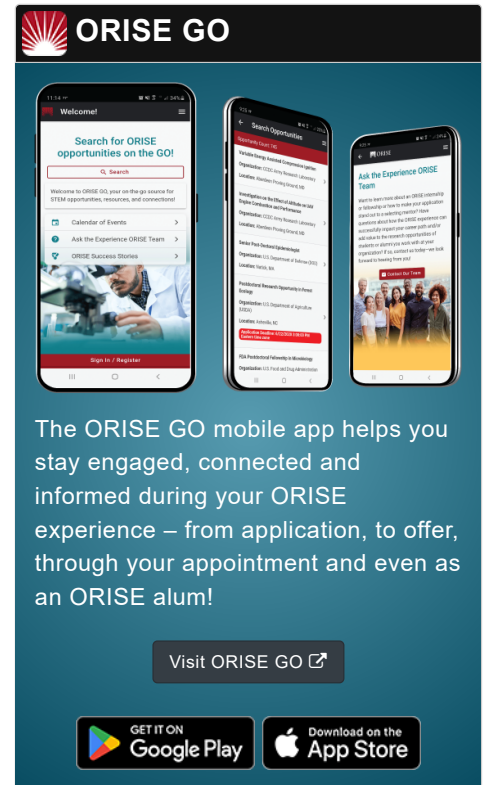
The primary focus of the research will be to understand how the immune system of natural hosts regulates gene expression in response to Mycobacterium bovis infection or vaccination with experimental vaccines.

Learning Objectives: The appointment will include further training and application of immunologic techniques for analysis of responses of large animal hosts to infection with Mycobacterium bovis. Areas covered by the training may include cell culture, flow cytometry, immunologic assays, analysis of gene expression, sequencing techniques and/or computational biology analysis.

Mentor(s): The mentor for this opportunity is Steven Olsen (steven.olsen@usda.gov) and the co-mentor is Mitch Palmer (mitch.palmer@usda.gov). If you have questions about the nature of the research please contact the mentor(s).

Anticipated Appointment Start Date: Summer/Fall 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

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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 and include the reference code for this opportunity.



Qualifications

The qualified candidate should have received a doctoral degree in one of the relevant fields, with experience in cellular and molecular immunology.

Preferred skills:

- Familiarity with various techniques including cell culture, flow cytometry, ELISA, RNA-sequencing, and qRT-PCR
- Experience in computational biology and/or large data processing
- Demonstrated research experience related to tuberculosis, intracellular pathogens
- Background in livestock immunology
- Demonstrated proficiency in molecular biological and immunological techniques that have resulted in authorship in peer-reviewed publications
- Experience in assessing gene expression in response to Mycobacterium bovis infection or infection with other intracellular pathogens

Eligibility Requirements

- **Degree:** Doctoral Degree.
- **Discipline(s):**
 - **Environmental and Marine Sciences** (1 )
 - **Life Health and Medical Sciences** (45 )