Opportunity Title: USDA-ARS Textile Technologist Fellowship
Opportunity Reference Code: USDA-ARS-SE-2023-0083

Organization	U.S. Department of Agriculture (USDA)
Reference Code	USDA-ARS-SE-2023-0083
How to Apply	***Connect with ORISE...on the GO!*** Download the new ORISE GO mobile app in the Apple App Store 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
- 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.

Application Deadline	5/26/2023 3:00:00 PM Eastern Time Zone
Description	****Applications are reviewed on a rolling-basis.***

ARS Office/Laboratory and Location: A research opportunity is currently available with the U.S. Department of Agriculture (USDA), Agricultural Research Service (ARS), within the Cotton Structure and Quality Research Unit at the Southern Regional Research Center located in New Orleans, Louisiana.

Research Project: Research projects will be conducted to develop improved natural fiber (cotton, hemp, etc.) quality measurements. Research will involve improving and developing methods to measure fiber length, strength, color, and fineness, including the distribution of the fiber properties. Phenotyping of natural fibers including cotton, hemp, and flax needs to be refined to enable industry development and provide opportunities for breeders to improve germplasm.

Learning Objectives: The training opportunity will provide learning opportunities in standard and novel fiber measurement techniques and the development process for internationally accepted standards.
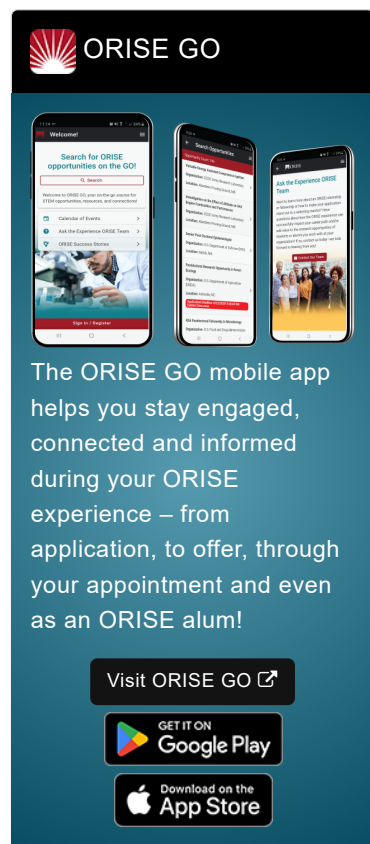
Mentor(s): The mentor for this opportunity is Chris Delhom (chris.delhom@usda.gov). If you have questions about the nature of the research, please contact the mentor(s).

Anticipated Appointment Start Date: As soon as a qualified candidate is identified. The start date is flexible with desired start date of June 2023 or sooner (other start dates can also be considered).

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.

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. However, this position requires a pre-employment check and a full background investigation. Proof of health insurance is required for participation in this program. Health insurance can be obtained through ORISE.

This is an equal opportunity program open to all qualified individuals without regard to race, color, age, sex, religion, national origin, mental or physical disability, genetic information, sexual orientation, or covered veteran's status.

Questions: Please visit our [Program Website](#). After reading, if you have additional questions about the application process, please email ORISE.ARS.Southeast@orau.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 of study (e.g., Plant and Soil Science, Crop Science, Textile Engineering).

Preferred Skills:

- Experience with fiber quality testing, textile processing, and natural fibers.
- Fiber testing experience or skills such as experience with the High Volume Instrument (HVI), Optical Fiber Diameter Analyzer (OFDA), and/or various ASTM International standard test methods for natural fiber testing.
- Ability to use statistical analysis software.
- Experience in data management.
- Fiber and/or textile testing laboratory management.

Eligibility Requirements

- **Degree:** Doctoral Degree.
- **Discipline(s):**
  - **Chemistry and Materials Sciences** (1 👁)
  - **Computer, Information, and Data Sciences** (1 👁)
  - **Engineering** (2 👁)
  - **Environmental and Marine Sciences** (1 👁)
  - **Life Health and Medical Sciences** (3 👁)