

Opportunity Title: Textile/Fiber Technology/Polymer Science Postdoctoral

Research Associate

Opportunity Reference Code: ARS-CSQR-2015-0042

Organization U.S. Department of Agriculture (USDA)

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How to Apply A complete application consists of:

- An application
- Official transcript(s) - scanned copies are acceptable
- A current Resume/CV

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

Description A postdoctoral research opportunity is available with the U.S. Department of Agriculture (USDA) Agricultural Research Service (ARS) Cotton Structure and Quality Research Unit at the Southern Regional Research Center in New Orleans, LA. The selected applicant's primary responsibility will be conducting research and, if necessary, modify instrumentation to characterize essential physical properties of cotton fiber relative to product quality and textile processing and to establish the relationships among the properties of fiber, yarn, and fabric. The results from the developed techniques will be compared using statistics/statistical modeling to results from standard and non-standard cotton fiber quality measurements and instrumentation (HVI, AFIS, imaging, etc.).

The appointment is full-time for one year and may be renewed upon recommendation of the ARS and availability of funding. The annual stipend rate for this position is \$57,982. An additional stipend supplement is available to offset the cost of an individual health insurance plan. The participant must show proof of health and medical insurance. Health insurance can be obtained through ORISE. Funding is available for travel-related expenses to scientific and professional development activities. Funding is not available for relocation expenses. **The participant does not become an employee of the ARS or ORISE.**

While participants will not enter into an employment relationship with ARS, this position requires a pre-employment check and a full background investigation.

This opportunity is available to U.S. citizens, Lawful Permanent Residents and foreign nationals.

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.

For additional information about the ARS Research Participation Program, please visit <http://www.orise.orau.gov/usda-ars>.

Qualifications To be eligible, applicants must have received a doctorate. in Engineering, Textile/Fiber Technology, Polymer Science, Mathematics, or a closely



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related within five years of the desired starting date.

Knowledge of and/or experience with the following is required:

- Applications of image analysis and microscopy
- Practical simulation of particular engineering processes by analytical, numerical, or hybrid computer models
- Applications of system modeling, knowledge discovery (artificial neural networks, fuzzy logic, etc.)
- Database development programs

Knowledge of fiber and yarn testing, textile processing, and/or textile/fiber science and technology are preferred.

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| Eligibility | • Degree: Doctoral Degree. |
| Requirements | • Discipline(s): <ul style="list-style-type: none">◦ Chemistry and Materials Sciences (1 )◦ Engineering (27 )◦ Mathematics and Statistics (10 )◦ Physics (1 ) |