

Statistical Metrology for Public Safety Communications (U.S. Citizenship Preferred)

Overview

The Information Technology Laboratory of the National Institute of Standards and Technology (NIST) is seeking qualified candidates, U.S. citizenship preferred, to collaborate with NIST scientists, engineers, and statisticians to advance research in public safety communications. The goals of the research include enhancing the understanding and performance of public safety communication technology, developing a virtual simulation framework for uncrewed aircraft system communications, advancing standards and interoperability for mission critical services between land mobile radio and broadband systems, and evaluating user experience research. The teams involved in these research studies seek to use advanced statistical experimental design in the project planning phase, comprehensive data analysis and modeling of data from complex data structures, and statistical communication relevant to a broad audience.

Duties include but are not limited to:

- Working with scientific collaborators to help define and clarify project goals and timelines
- Designing experiments with statistical principles
- Data cleaning and exploratory data analysis; for example, developing graphical displays and descriptive statistics
- Statistical modeling and analysis of data in support of collaborative research goals (e.g., hierarchical modeling, predictive modeling, uncertainty analysis)
- Implementation of statistical methods via high-level programming language such as R or Python
- Presentation and communication of results and statistical analysis to non-statisticians

Required Skills, Expertise and Qualifications

- Master's degree in statistics or related field.
- Experience with statistical study design, data cleaning and organizing, creating graphical displays, and statistical modeling, analysis, and computing (e.g., R, Python, Matlab)
- Strong oral and written communication skills

Employment Terms: This opportunity is to be an associate researcher in the NIST Statistical Engineering Division for a term of 1 year, with options to renew and/or pursue longer-term federal employment. Associate researchers are NOT Federal Employees, but they work aside NIST researchers. Relocation expenses will not be provided.

Salary: \$80,000-\$85,000

How to express interest: Interested candidates, U.S. Citizens preferred, who meet all of the required qualifications are invited to express their interest in the position by sending an updated CV to Julia Sharp at julia.sharp@nist.gov.