National Institute of Standards and Technology • U.S. Department of Commerce

Statistical Engineering Division — Boulder, Colorado

The Statistical Engineering Division at the National Institute of Standards and Technology is seeking to identify qualified individuals to join their dynamic team. All career levels: entry, mid, and senior, are being considered. Visit us at the INFORMS Career Fair or contact Dennis Leber at dennis.leber@nist.gov to arrange an onsite discussion at the INFORMS Annual Meeting in Seattle.

About NIST: Founded in 1901, the National Institute of Standards and Technology (NIST) is one of the nation's oldest physical science laboratories. As part of the U.S. Department of Commerce, NIST engages in a wide range of technological research involving the physical, engineering, and computer sciences to help enhance the competitiveness of U.S. industry. NIST serves as the National Metrology Institute (NMI) for the United States, working with other NMI's around the globe to maintain and assure the accuracy of the International System of Units (SI). With a permanent staff of about 3000, including four Nobel laurates, NIST has academic-like campuses in Gaithersburg, MD (just outside of Washington, DC), Boulder, CO, and several other locations.

Statistical Engineering Division Duties: Staff members in the Statistical Engineering Division (SED) collaborate with scientists and engineers from NIST, other NMI's, industry, and government on applied research in metrology, the science of measurement, to include the design and analysis of experiments to maintain and improve existing measurement methods or develop new measurement methods. Job duties may also include analysis of measurement uncertainty, development of artifact and documentary measurement standards, technology transfer via contributions to the scientific literature, teaching, or software development. Research areas include chemical and biological measurements, fire research, forensic science, basic and applied physics, materials science, manufacturing, environmental measurements, networks and communications, electronics and electrical engineering, civil engineering, and nanotechnology. Statistical areas of interest include machine learning, data science, experiment design, linear models, Bayesian analysis, time series, probabilistic modeling, robust statistical methods, and nonparametric or computer-intensive methods. SED has offices in both Gaithersburg and Boulder with a current a staff of about 20 statisticians plus faculty appointees and guest researchers from around the world.

Qualifications:

- Ph.D. or M.S. in statistics, probability, mathematics, machine learning, data science, operations research, industrial engineering or related field
- Strong verbal and written communication skills
- Experience formulating relevant statistical questions from general application descriptions or requirements
- Proactive ability to identify or develop statistical solutions that are fit for purpose
- Experience working in one or more statistical computing environments or computer languages
- Ability to work effectively on a wide variety of collaborative project teams
- Must be a United States citizen
- *NIST is an Equal Employment Opportunity employer*