

Applied Statistician (New PhD)

Seeking a new PhD to join the Scientific Test and Analysis Techniques Center of Excellence (STAT COE) located at the Air Force Institute of Technology (AFIT) at Wright-Patterson Air Force Base, Ohio.

You will directly support the acquisition of new systems in the Department of Defense and/or Homeland Security by applying rigorous, statistically based test and evaluation methods.

As a resident PhD you will help maintain and grow the technical quality of the center and work with other STAT experts providing direct program support. Responsibilities include:

- Development of test strategies, technical test designs, and post-test analysis
- Employing various techniques and methods such as design of experiments, Bayesian analysis, regression modeling, and reliability planning
- Using statistical software (e.g. JMP, R, Python, MATLAB) to create test designs
- Supporting special studies for topics of interest to senior leadership
- Mentoring T&E practitioners in STAT processes and technical test design
- Teaching 1, 2, and 5 day courses in Design of Experiments and Reliability
- Communicating solutions to leadership orally and in writing, clearly and accurately
- Providing specific recommendations, best practices, case studies, and lessons learned

Required:

- PhD in statistics, applied mathematics, industrial engineering, or operations research
- Ability to apply diverse statistical methods to complex real world systems
- Strong technical research and writing skills to prepare authoritative works
- Exceptional interpersonal skills communicate effectively across multi-functional teams

Preferred:

- Exposure to design of experiments for many-factor problems
- Exposure to systems reliability planning and evaluation, or related work