

Mathematical Statistician

Description of Duties

Design and oversee the statistical components of broad and complex research studies aimed at estimating and testing hypotheses. Apply mathematical techniques, and perform computerized analyses to determine the adequacy of collected public health data needed to resolve scientific problems, and modify existing techniques and practices. Provide consultation and training to professionals inside and outside the Agency, domestically or internationally. Recommend to management modifications in the conduct of research and training researchers to introduce new methods and otherwise maintain standards for the application of statistical methods to public health research.

Evaluate and integrate data from complex probability-based surveys, observational studies, designed experiments, and analysis of data from large dataset/databases; use mathematical and statistical programming and data processing using programs such as R/S-plus, C++, Matlab, Stata, Java, Perl and SAS; design biological and chemical experimental studies; provides support for microbial and chemical assay and method development. Conduct analysis of population level surveys, population projection modeling and micro-simulation models; econometrics; econometrics dynamical systems, systems biology simulation.

Qualifications

- A minimum of a bachelor's degree or higher that included 24 semester hours of mathematics and statistics, of which at least 12 semester hours in mathematics and 6 semester hours were in statistics. A doctoral degree in mathematics, statistics or related discipline is strongly preferred. A combination of education (coursework equivalent to a major) and experience may be considered.
- U.S. citizenship is required.

Education

An official transcript, unofficial transcript, or a list including courses, grades earned, completion dates, and quarter and semester hours earned may be required. If you are using education completed in foreign colleges or universities to meet the qualification requirements, you must show that the education credentials have been evaluated by a private organization that specializes in interpretation of foreign education programs and such education has been deemed equivalent to that gained in an accredited U.S. education program; or full credit has been given for the

courses at a U.S. accredited college or university. For further information, click on: [foreign education](#).

Note: Please review each grade announcement for the specific qualifications and specialized experience

Grade (Salary) Level

Federal General Schedule (GS) grade levels at which Mathematical Statisticians are commonly filled are:

- GS-12 through GS-15 (\$79,720.00 to \$161,900.00 / Per Year)

Geographic Location

Mathematical Statisticians are located at FDA Headquarters in Silver Spring, MD