BIOSTATISTICIAN

DISTINGUISHING FEATURES OF THE CLASS:

This is a highly technical position in the Department of Behavioral and Community Health responsible for obtaining and analyzing health data and related data to monitor trends in the community, support epidemiologic investigation, and evaluate behavioral and public health programs and interventions. Work requires advance knowledge of applied epidemiology and biostatistics for public health practice. The Biostatistician works under the direct supervision of the Epidemiologist and may exercise supervision over subordinate staff or interns.

TYPICAL WORK ACTIVITIES:

The following is indicative of the level and types of activities performed by incumbents in this title. It is not meant to be all inclusive and does not preclude a supervisor from assigning activities not listed which could reasonably be expected to be performed by an employee in this title.

1. Assists the Epidemiologist in the collection, analysis, interpretation, visualization, and reporting of vital statistics and other health metrics to determine and evaluate community health needs;
2. Designs, manipulates, and utilizes databases for analysis of health issues and program evaluation;
3. Analyzes and interprets data using appropriate statistical methods;
4. Supports survey development, survey sampling strategy, and statistical analysis of survey results;
5. Responds to internal and external requests for health statistics;
6. Assists department in the use of relevant methods for planning and program evaluation;
7. Support epidemiologic investigations and evaluation of public health research questions.

FULL PERFORMANCE KNOWLEDGE, SKILLS, AND ABILITIES:

Knowledge of the principles, theories, and techniques of descriptive and inferential statistics;
Knowledge of public health and/or behavioral health practice and related sources of population data;
Knowledge of the regulations and objectives of health department programs;
Knowledge of current developments in the field of statistics or biostatistics;
Knowledge of a variety of statistical software tools for data collection and analysis;
Ability to prepare written reports and summaries including charts and graphs;
Ability to use established mathematical and biostatistical methods;
Ability to establish and maintain effective work relationships;
Ability to communicate effectively both verbally and in writing;
Personal characteristics necessary to perform the duties of the position;
Physical condition commensurate with the demands of the position.

MINIMUM QUALIFICATIONS:

EITHER: (A)   Graduation from a regionally accredited or New York State registered college or university with a Master's degree in Epidemiology or Biostatistics;

OR: (B)   Graduation from a regionally accredited or New York State registered college or university with a Master's degree in Public Health or a related field which should have included a minimum of ten credit hours in biostatistics and/or epidemiology *and* one (1) of year experience in technical or quantitative public health research or biostatistical analysis;

OR: (C)   Graduation from a regionally accredited or New York State registered college or university with a Bachelor's degree in biostatistics or a closely related field, which shall have included a minimum of six credit hours in computer science, *and* two (2) years of experience in technical or quantitative public health research work, health informatics, or biostatistical analysis.

NOTES:

1. Graduate school course work in mathematics, statistics, epidemiology or a related field may be substituted for the experience described above on a year-for-year basis (24 credit hours for one year of experience) up to a maximum of two years.
2. A closely related degree could include public health, health informatics, math, computer science, pre-med biology or nursing depending upon the course work. Candidates must submit transcript(s) to justify relatedness of individual degree. Your degree or college credits must have been awarded by a college or university accredited by a regional, national or specialized agency recognized as an accrediting agency by the U.S. Department of Education/U.S. Secretary of Education.
3. Submit list of credit hours required above to qualify for position.