Job Title: Statistical Data Analyst

Job Summary
A Statistical Data Analyst conducts statistical research analyses by developing research protocols, compiling data, managing data bases, analyzing data using specialized statistical computer programs, and presenting research results in numerical and graphic formats. This position analyses research in a specialty such as health care, public health, educational programs, educational administration, behavioral science, mental health, or social science.

Nature of Work
This position gathers, organizes and statistically analyzes research data. The position determines data requirements, designs data collection tools, constructs and manages databases, conducts statistical analysis of data, and reports results. The position participates in development of research policies and practices in a specialty such as health care, public health, educational programs, educational administration, behavioral science, mental health, or social science. Duties include use of specific statistical analysis software such as SAS or SPSS and may include SQL or other programming. This position may act as a data consultant to several research studies. This work meets the FLSA criteria for a professional exemption by performing work that is primarily intellectual in character that requires a prolonged period of academic preparation. This work is distinguished from Social and Behavioral Researcher by its emphasis on complex data manipulation using statistical software. The work is distinguished from a Statistical Data Analysis Manager or higher level researcher since it is not responsible for setting overall research direction, or coordinating or supervising the work of other Statistical Data Analysts. Work does not require a Ph.D. Statistical Data Analysts use primarily data design and statistical techniques rather than other scientific duties such as searching literature, conducting field interviews, writing training manuals, or drafting final project reports.

Examples of Duties

- Develops statistical surveys by designing data collection instruments, calculating sample sizes and selecting appropriate analytical procedures.
- Conducts data analyses, and reports results associated with a research study, using SPSS, SAS, and other statistical analysis software. May use SPSS or other programming languages.
• Summarizes statistical results of a research project by creating graphs, tables and charts. Interprets and conveys results to project leaders, principal investigators and/or outside agencies. Refines statistical models after consultation.
• Designs ad hoc reports requested by administrators, for example an analysis of client workday and income data, the tabulation of gender and race/ethnicity of populations served, and comparison of study data with similar data from other institutions.
• Advises other Data Analysts and principal investigators on the most appropriate statistical techniques to be used in particular projects.
• Designs large datasets in conjunction with systems programmers.

**Minimum Qualification Requirements**
This position requires a Bachelor’s degree in a field directly related to the research or data analysis responsibilities and a minimum of one year of research experience; or a Master’s degree in one of the same fields. Progressively responsible work experience may substitute for the college on a year for year basis.