I. Introduction

This position is located in the Division of Biometry and Risk Assessment, Office of Research, National Center for Toxological Research (NCTR), Jefferson, Arkansas. The NCTR conducts FDA mission-critical, peer-reviewed, critical path (translational) research that is aimed toward developing a scientifically sound basis for regulatory decisions and toward reducing risks associated with FDA-regulated products.

II. Duties and Responsibilities

The incumbent serves as a consultant to and collaborator with other scientists at the NCTR on statistical aspects of experimental design and data analysis. Problem areas include biochemical toxicology, genetic toxicology, reproductive toxicology, microbiology, molecular epidemiology, neurotoxicology, and phototoxicology. Research problems may involve the collection and analysis of genomics, proteomics and metabolomics data.

The incumbent dedicates significant time and effort to studies conducted at NCTR under the National Toxicology Program (NTP). Many of these are traditional lifetime rodent studies conducted to assess the toxicological and carcinogenic potential of drugs and other chemicals. There are also multi-generation studies in rodents that require special designs and analyses, and there are studies in non-human primates that may require specialized analytical techniques. Specialized analytical techniques are also required in the analysis of photococarcinogenicity data from rodent studies.

The incumbent will use standard statistical packages, such as SAS, to perform appropriate estimation and hypothesis testing in the analysis of experimental data, and may be required to employ scientific programming languages such as R, FORTRAN and C++ to meet the requirements of particular programming requests. The incumbent may use special in-house programs to query databases for the automated retrieval of data.

The incumbent writes technical reports describing the analysis and interpretation of toxicology research data. These reports provide information for principal investigators to include in manuscripts for publication in peer-reviewed scientific journals. As necessary, the incumbent will discuss reports and other products with requesting parties to ensure that statistical requirements have been met and are understood and properly interpreted. The incumbent provides results of statistical analyses to be included in NTP technical reports according to prescribed formats.

III. Supervision and Guidance Received

The incumbent works under the supervision of the Director, Biostatistics Branch, Division of Bioinformatics and Biostatistics. Specific assignments are given by a senior mathematical statistician who serves as a team leader. The incumbent keeps the team leader informed of progress and the team leader reviews the work for technical accuracy. The incumbent communicates directly with principal investigators.
IV. **Qualifications**

This position requires a master’s degree or above in statistics/biostatistics, with competence in the use of statistical software packages. Grade level ($48,968.00 – $109,781.00) is dependent on experience and accomplishments. Non-US citizen is acceptable.