PHARMACOMETRICS STAFF SCIENTIST
UNC Eshelman School of Pharmacy

A full-time pharmacometrics Staff Scientist will work as part of a multidisciplinary team in the newly established Pharmacometric Center for Precision Medicine in the Division of Pharmacotherapy and Experimental Therapeutics (DPET) at the UNC Eshelman School of Pharmacy.

DPET is a rapidly growing division focused on collaborative clinical and translational research projects, with a special emphasis on developing world-class programs in pharmacogenomics, quantitative pharmacology, and experimental therapeutics. Current research centers around the following therapeutic areas: oncology, cardiovascular, HIV, and gastroenterology/hepatology. The Division’s graduate program focuses on developing translational research skills that facilitate evaluation of the mechanisms of disease processes and drug therapy. Students utilize preclinical models and conduct patient-oriented research to evaluate mechanisms of disposition, efficacy, and toxicity of therapeutic agents.

The successful candidate will work on projects focused on the application of mathematical modeling and simulation to characterize drug pharmacokinetics/pharmacodynamics. The projects will involve the use of nonlinear mixed effects and physiologically-based modeling techniques, and other biostatistical applications in drug development research, to identify optimal dosing and clinical trial design.

Percentage Effort; Principal Functions; Description

1. 50%, PK/PD Data Analyses: Use PK/PD modeling and simulation techniques to perform analyses designed to optimize clinical and experimental design and identify optimal drug dosing. Record and report results to the group. Prepare reports for submission to study sponsors and regulatory agencies.

2. 25%, Mentoring Students and Postdoctoral Fellows: Introduce newer group members to the techniques and software used within the group. Help graduate students with designing and performing necessary experiments. Train new group members to formulate research questions, prepare data analysis plans and/or experimental protocols, answer project related questions, and help with record keeping and preparation of reports/manuscripts.

3. 25%, Managing group activities: Oversee and help with project related questions, ordering supplies and tracking budgets from multiple funding sources. Serve as primary contact for service providers, coordinate service agreements and ensure training/compliance of all group members.

Education and Experience: Minimum of a M.S. or doctoral degree in pharmaceutical sciences, engineering, statistics, or a related field. Extensive software (e.g., NONMEM, R) and programming proficiency is preferred. Excellent oral and written communication skills and ability to work independently as well as a member of an interdisciplinary team are essential.

Please submit your CV, Letter of Interest and names and contact information for 3 professional references to http://unc.peopleadmin.com/postings/88722

The University of North Carolina at Chapel Hill is an equal opportunity and affirmative action employer. All qualified applicants will receive consideration for employment without regard to age, color, disability, gender, gender expression, gender identity, genetic information, national origin, race, religion, sex, sexual orientation, or status as a protected veteran.