Title:
Principal / Sr. Principal Scientist Quantitative Systems Pharmacologist
Job ID:
976332
Location:
United States-Massachusetts-Cambridge

Org Marketing Statement
All over the world, Pfizer colleagues are working together to positively impact health for everyone, everywhere. Each position at Pfizer touches and contributes to the success of our business and our world. That's why, as one of the global leaders in the biopharmaceutical industry, Pfizer is committed to seeking out inspired new talent who share our core values and mission of making the world a healthier place.

Role Description
In support of Pfizer's Neusentis Research Unit, develop and apply fit for purpose quantitative pharmacology models (e.g. PK/PD and/or systems pharmacology) in support of decisions regarding target prioritization, modality selection, experimental design, lead optimization and early clinical trial design.

Responsibilities
• Collaborate directly with multidisciplinary project teams and external research institutions to develop and implement mechanistic mathematical models of pharmacology in support of project progression (target prioritization, modality selection, experimental design, lead optimization and early clinical trial design)
• Contribute to shaping the translational-research strategy
• Network as appropriate with internal experts in quantitative pharmacology (e.g. Clinical Pharmacology, Pharmacometrics, Biology) to share learnings and enhance consistency in best practices across departments and sites
• Keep up to date with literature concerning targets and indications within the area of pain and sensory disorders as well as mathematical modeling (systems pharmacology & PK/PD).
• Build upon existing personal publication track record and contribute to PDM's external publication/presentation goals

Qualifications
• Ph.D. degree in mathematics, physics, engineering, or other discipline with strong numerical components focusing on modeling and simulation
• 3+ years experience in model-based drug discovery and development
• Prior experience in the area of neuroscience, pain and sensory disorders (preferred)

• Publication record related to modeling and simulations

Technical and Behavioral Competencies
• Ability to learn new areas of biological science and apply quantitative skills to develop impactful models and simulations
• Hands-on knowledge of modeling and simulation software and applications in the area of PK/PD and systems biology
• Ability to translate/condense/ summarize outcomes of modeling and simulation analyses into information that can be used by project teams
• Ability to interact and communicate effectively with colleagues with a variety of backgrounds and across multiple geographical locations
• Excellent understanding of theory, principles and statistical aspects of advanced modeling and simulation
• Demonstrable ability to implement advanced mathematical and statistical concepts into new models
• Ability to keep up-to-date with and propose the implementation of scientific and technological developments in the area of mathematical modeling, systems pharmacology, and salient biology relating to the target of interest
• Motivated to develop a career as a hands-on, technical modeling and simulation expert in a preclinical drug discovery environment
• Keen to interact as a modeling and simulation expert with matrix project teams working closely with PDM, Biology and Clinical scientists

Equal Employment Opportunity
Pfizer is committed to equal opportunity in the terms and conditions of employment for all employees and job applicants without regard to race, color, religion, sex, sexual orientation, age, gender identity or gender expression, national origin, disability or veteran status. Pfizer also complies with all applicable national, state and local laws governing nondiscrimination in employment as well as employment eligibility verification requirements of the Immigration and Nationality Act. All applicants must have authorization to work for Pfizer in the U.S. In certain circumstances it may be advantageous to Pfizer to support the application(s) for temporary visa classification and/or sponsor applications for permanent residence so that a foreign national colleague can accept or remain in a work assignment in the U. S. For certain classes of temporary visas, the resulting work authorization may be specific to Pfizer and the specific job and/or work site. Pfizer may at its business discretion decide to or refrain from obtaining, maintaining and/or extending the temporary visa status and/or sponsoring a colleague for permanent residency and /or employment eligibility, considering factors such as availability of qualified U.S. workers and the colleague's long-term prospects for securing lawful permanent residence, among other reasons. Employment applicants requiring immigration sponsorship must disclose, when initial application for employment is made, whether or not they are legally authorized to work for Pfizer in the U.S. and, if so, whether that authorization permits them to work in the job they seek. In no case should Pfizer's support of a colleague's temporary visa application or sponsorship of a colleague for permanent residence be construed to guarantee success of that

application or amend or otherwise invalidate the "at-will" employment relationship between the colleague and Pfizer.