



Genentech, the world's first biopharmaceutical company, leads the industry in applying high-quality innovative science and technology to the development of important new drugs that continue to revolutionize the field of medicine.

Postdoctoral Research Fellow

This is an exciting and unique industrial Postdoctoral Fellowship position at Genentech that will be well mentored by a committee of top protein scientists, with the opportunity to interact with renowned academic or external researchers in the fields of molecular dynamics and colloid physics. The main part of this project will involve investigating how a monoclonal antibody's (mAb) sequence, in particular the complementarity determining region (CDR), affects mAb cluster size and geometry at high concentrations in solution. This is relevant to predicting bulk properties such as viscosity, phase separation, and aggregate levels over time. Most of the project will involve computer modeling, but at the same time biophysical insight gained from existing experimental data will be used to guide modeling methodology.

Requirements: A Ph.D. in biophysics, biochemistry, chemistry or a related discipline is required. The candidate must have experience in the computational modeling of proteins. A good understanding of and experience with molecular dynamics, protein-protein and multiparticle interactions is preferred. Knowledge of protein-solvent interactions and protein modeling is also preferred. Some experience in biophysical measurements for proteins will be a plus. The candidate will be responsible for presenting data at internal, department-wide and/or other company meetings as well as various external meetings when appropriate. In addition, the candidate will be expected to publish most if not all of their work.

The primary aim of this program is for Genentech scientists to train postdocs to conduct research of the highest possible quality and publish the results in top-tier journals. Mentors are expected to nurture skills in their postdocs that will facilitate their transition to independent scientific investigators. Overall, the Genentech post-doc program is designed to create a vibrant and supportive environment for rigorous scientific training and is not meant to be a stepping-stone for non-research based careers such as Business Development or Legal. Genentech benefits greatly from the program by gaining new ideas, techniques, and cutting edge capabilities. In addition, world-class research by postdocs enhances the scientific reputation of Genentech. Process Research & Development at Genentech designs, delivers, and supports robust, cost-effective production methods and technologies to meet the needs of Genentech's Research, Development, Commercial, and Production Operations groups. The group has long been recognized as a world leader in developing large-scale manufacturing processes, sophisticated analytical methods and effective drug delivery systems.

For immediate consideration, please send your resume to isidro@gene.com as soon as possible.

Genentech is an Equal Opportunity Employer