Amgen Job Description

Amgen is currently seeking a Scientist in our Drug Product Technologies Department with a strong scientific background in Protein Biochemistry.

This is a great opportunity for a highly motivated and creative candidate to develop, advance and apply protein biochemistry/polymer technologies to drug delivery challenges. Working in a science-based organization, the successful candidate will drive continuous improvement in our knowledge of protein behavior through technological innovation and application of experimental findings and actively contribute to the evolution of our understanding of the molecular drivers of aggregation and surface interactions. This individual will be involved in providing unique solutions to these challenging protein interactions. The optimization of protein therapeutics for stabilization towards alternative modes of delivery and storage is of critical importance in the development of human therapeutics. Cross-functional and cross-team collaborations are expected. Experience in developing and implementing emerging technologies is required.

Responsibilities include:
• Participate in the planning, design, execution, and documentation of laboratory studies related to formulation and fill/finish process development in support of product commercialization.
• Conduct stability studies, including preparation of liquid frozen and lyophilized formulations. This will involve knowledge of ultrafiltration-diafiltration and other buffer exchange processes. A solid understanding of protein formulation design to address potential degradations in the liquid and lyophilized states. Also, lab scale sterile filling into vials and syringes will be conducted.
• Identify current gaps in Amgen’s tools and technology to advance our understanding of protein:protein and protein:surface interactions.
• Responsible for development and exploration of new technologies for different modalities such as fusion proteins, Mab fragments, RNA based drugs.
• Execute development of protein drug formulations, analytical characterization of proteins, development of chromatographic and electrophoretic assays.
• Additional responsibilities include documenting and retrieving scientific results in HLEE notebooks and computer files for regulatory filings, participating in group and project meetings, and presenting at departmental seminars. Deliver progress reports, presentations, expectations include both internal and external presentation of scientific data with an eventual external publication/patent track record.
• Participation in global cross-functional teams working effectively in a highly matrixed team environment to enhance our understanding of protein behavior.

Basic Qualifications
• Doctorate degree & 2 years of scientific experience
  OR
• Master’s degree & 6 years of scientific experience
  OR
• Bachelor’s degree & 8 years of scientific experience

Preferred Qualifications
• Advanced degree in Pharmaceutics, Biotechnology, Biochemistry, Physical Biochemistry or related discipline with a minimum of 2-4 years of Post-Doctoral experience in Protein Biochemistry
• Thorough understanding of the lyophilization formulation and process for developing lyophilized drug products
• Advanced knowledge and hands on experience in Analytical and Biophysical techniques, such as HPLC/UPLC, Capillary Electrophoresis, Particle analysis, Moisture analysis, Differential scanning calorimetry, CD, Fluorescence, Analytical centrifugation, light scattering (DLS, SLS). Mass spectrometry is a plus.
• Strong independent problem solving and communication skills
• Demonstrated background in protein characterization, stability and experience in development of parenteral control release delivery systems is a plus
• Publication background commensurate with Protein Biochemistry.
• Advanced understanding of predictive methods, protein stability and solubility
• Demonstrated background in modeling and prediction of protein:protein interactions, protein:small molecule interactions and protein behavior
• Demonstrated ability to learn and act on dynamic information at a rapid pace.

Anyone interested please contact Jun Zhang via email: jzhang01@amgen.com or phone: 805-223-1061.