



Sr Scientist, Downstream, Late Stage Purification, CMC

Summary:

Synthorx is a pharmaceutical company using a novel synthetic biology platform for the discovery and production of improved protein therapeutics. We have advanced a revolutionary technology that expands the genetic alphabet to drive the site-specific incorporation of multiple non-natural amino acids into proteins of any size, and to manufacture these improved proteins at scale. This technology enables the design of biotherapeutics with useful chemical functionality and opens up opportunities to make novel protein therapeutics to previously difficult to drug targets. We are hiring a Sr. Scientist to join the Late Stage Process Development CMC group. The successful candidate will have a strong background in protein biochemistry and purification of protein expression in *E. coli*.

Key Responsibilities:

- Design and develop robust, scalable and cost-effective purification process for microbial-derived biologic therapeutics using protein refolding, chromatography, normal and tangential flow filtration
- Direct, design and execute full process characterization / validation (PC/PV) using strategy and statistical tools from QbD including risk analysis, DoE, identification of Critical process Parameters, and Controllability
- Perform data analysis on the performed and related activities, design hypothesis and test to improve process related to recovery or scalability, prepare technical reports, DoE's and internal and external presentations
- Identify, evaluate, and implement new and existing technologies to improve process efficiency, control, and understanding
- Ensure effective, high-quality, timely and appropriate documentation in reports and laboratory notebooks
- Effectively maintain good communication and collaborate with cross-functional colleagues for successful execution/completion of project
- Support preparation of reagents, buffers, and equipment as needed to support experiments

Required Qualifications:

- Bachelor's/Master's degree in Chemical Engineering, Biochemical Engineering, Biochemistry or equivalent related fields with 12+ years relevant industrial or PhD degree 5+ years relevant industrial experience required
- Strong hands-on experience in protein related purification techniques such as filtration, chromatography, TFF, UF/DF, AKTA, UNICORN, A280, ion exchange, size exclusion, reverse phase, and HPLC systems. Experience with different modes of chromatography is desirable
- Knowledge and skills in biochemical characterization of proteins including analytical and biophysical techniques
- Statistical Knowledge, JMP software required
- Supervisory, managing direct reports experience is a plus
- Experience in cGMP, CMC activities, BLA submission is a plus
- The candidate should be self-motivated, accountable, inquisitive, and have excellent organization and communication skills

Travel: Up to 25% travel may be requested at times