



Scientist, Microbial Engineer

Synthorx is a pharmaceuticals 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 Scientist to join the Production group. The successful candidate will have a strong background in protein expression in *E. coli* and a working knowledge of protein biochemistry and purification.

Job duties include but are not limited to:

Design, plan and perform microbiology and molecular biology experiments, analyze and evaluate data, and write associated reports. Investigate the feasibility of applying a wide range of scientific principles and concepts to potential inventions and/or products. The ideal candidate will demonstrate the ability to effectively work within a highly collaborative environment with other scientific members of the team and make individual contributions of high impact to our technology platform and projects.

Education requirements:

- Ph.D. in bioengineering, microbiology, molecular biology, or a closely related field, and a minimum of 3 years of post-graduate experience in industry or academia. Proven expertise with engineering of *E. coli* is strongly preferred. Additional experience with other industrially-relevant prokaryotes and/or eukaryotes and microbial metabolism is a plus.

Knowledge, Skills and Abilities:

- Knowledge and practical experience in the following areas is particularly advantageous:
 - Bacterial physiology, including DNA replication/repair, transcription and translation
 - Genome engineering of prokaryotic systems using CRISPR/Cas9, recombineering, etc.
 - Command of and extensive experience in diverse DNA assembly methods
 - Deep experience and practical knowledge of bacterial genetics (screens/selections) and microbiology
 - Extensive experience in protein chemistry and recombinant protein expression in microbial hosts
 - Familiarity with cutting-edge synthetic biology technologies & methods
 - Deep understanding of microbial physiology, metabolism
 - Experience with orthogonal translation systems. Hands-on knowledge of amber suppression is a plus
- We seek a highly creative and innovative scientist with a drive to create and translate new ideas into practical advances
- Self-motivated and independent, but demonstrated ability to coordinate and work well as part of a research team
- Ability to work well in sight of aggressive timelines and excellence in multitasking