



Senior Research Associate/Associate Scientist - Molecular Biology and Microbiology

Synthorx is a biopharmaceuticals company dedicated to delivering new biologic medicines to patients suffering from cancer and autoimmune disorders. Synthorx is applying a revolutionary synthetic biology technology based on an expanded DNA code to create designer protein-based medicines. We are seeking a dynamic and rigorous Senior Research Associate or Associate Scientist to join our team to help designing, building and testing improvements to our expression systems to enhance production of therapeutic proteins. The ideal candidate will bring extensive experience in molecular biology and protein expression, and strong expertise in developing strategies and methods for high-level protein production.

To apply for this position, please include both a resume and cover letter describing your experience, interests and any other information that you consider relevant to hr@synthorx.com.

Target scientific disciplines: molecular biology, biochemistry and microbiology (example skills include strain engineering, DNA assembly, high-throughput expression methods, and protein engineering).

Job duties include but are not limited to:

This position will be an integral part of our protein expression, strain design and engineering group. The successful candidate will play a critical role in the design, planning, performance, and analysis of molecular biology and microbiology experiments to optimize the expression of difficult to express therapeutic protein candidates using the Synthorx technology. Regular activities will include designing and performing molecular biology for cloning, transforming microbial strains and generating/testing novel constructs and strains for high-level protein expression. We hope to bring in an individual with strong initiative and desire to make a positive impact on the team. The ideal candidate will demonstrate the ability to effectively work within a highly collaborative environment with other scientific members and make individual contributions of high impact.

Education requirements:

- BS., M.S. 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.

Knowledge, Skills and Abilities:

- Knowledge and practical experience in the following areas is particularly advantageous:
- Experience with protein expression construct design and optimization
- Command and extensive experience in DNA assembly methods
- Hands on experience testing and optimizing recombinant protein expression in microbial hosts
- Development of scale-up expression methodologies from flask to fermenter is of interest
- Experience in development or application of higher-throughput methodologies for protein expression screening
- Experience with orthogonal translation systems. Hands-on knowledge of amber suppression is a plus
- Highly creative and innovative scientist with a drive to generate 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