Research Associate/Senior Research Associate, Microbial Fermentation Protein Sciences and Early Stage CMC Process Development

Synthorx has 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 opens-up opportunities to make novel protein therapeutics to previously difficult to drug targets. We are hiring a motivated Research Associate/Senior Research Associate with hands-on experience with microbial protein expression and protein purification. This candidate will contribute to the development of protein expression processes using Synthorx recombinant platform to support lead candidate selection, pre-clinical studies and technical transfer to external CMOs.

Key Responsibilities:

- Experience with E.coli and Pichia fermentation. Perform all steps of protein expression and scale-up under minimal supervision.
- Experience with fermentation equipment at bench scale required (1L to 10 L). Experience at pilot and industrial scale desirable.
- Contribute to downstream process development teams to ensure efficient integration of functions.
- Develop standard operating procedures, document protocols and technology transfer.
- Support internal lead discovery efforts and pre-clinical studies.
- Prepare and present project updates to ensure timely delivery.
- Maintain a high standard for quality control including up-to-date data records for all fermentations executed.
- Troubleshoot challenging technical, experimental, and instrumental issues.

Required:

- MSc or BSc and 5+ of hands-on experience with recombinant protein production.
- Experience with E. coli and Pichia-based recombinant expression including scale-up preparation employing fermentation instrumentation and protocols. Familiarity with DASGIP instrumentation is highly desirable.
- Working knowledge of microbial physiology and its impact on process optimization.
- Hands-on experience with protein purification including chromatography (column packing, resin screen) and TFF. Familiarity with AKTA instrumentation is highly desirable.
- Experience in protein characterization (SDS PAGE, Western Blotting, quantification).
- Experience with technical transfer to external CMOs.
- Effective communication and prioritization of activities to match dynamic timelines.
- Manages own time effectively.