GeneLeap Biotech (Luye Life Science) is working to develop first-in-class messenger RNA (mRNA) based therapeutics and vaccines. We are looking for a highly motivated and innovative candidate as senior scientists joining GeneLeap’s mRNA PD team at Woburn, MA. Our PD team focus on envision, development, scale-up and validation of GMP mRNA manufacturing process, while produces high-quality mRNA to support research candidate evaluation by our early discovery team. The successful candidates will have the experience leading the efforts of mRNA process development from early stage process design to late stage process technology transfer.

**Responsibilities Including, But Not Limited To**

* Apply deep knowledge in nucleic acid research to lead mRNA process platform development
* Lead screening, optimization, and scale-up efforts on **enzymatic reaction and IVT synthesis including plasmid digestion, mRNA synthesis,** nucleobase modifications and post-transcriptional modifications**.**
* **Design and execute DOE studies & high-throughput screen** for process improvements and advancements
* **Support the development of automated mRNA production process to supply high-quality mRNA for lead candidate screen**
* Support the development of robust physicochemical, chromatographic, and molecular and cell-based assays for in-process controls and final product release testing.
* **Work closely with cross-functional teams including** CMC scientists to develop mRNA production strategies to meet ambitious project timeline.
* **Communicate effectively with regular verbal and formal updates to project teams and management.**
* **Maintain necessary documents including laboratory notebooks, process development reports, technical transfer records, and process related documents.**
* **Build and promote GeneLeap’s value and culture, result oriented, work with can-do attitude, team player mentality, constantly inject positive energy into the working environment.**

**Qualifications**

* Degree in Molecular Biology, Genetics, Biotechnology, Bioengineering, or a related scientific field. BS with 10+ years of directly related experience, MS with 8+ years of directly related experience, or PhD with 4+ years (preferred) of directly related experience.
* Strong understanding of nucleic acid chemistry, enzymatic and chemical reactions, and mRNA process at bench and larger scales.
* Strong hands-on skills in nucleic acid handling and manipulation including plasmid preparation, in vitro transcription, purification, and cleanup is a must.
* Proficient in analytical technologies including HPLC, agarose gel electrophoresis, capillary electrophoresis, qPCR, ELISA is required.
* Experience in high-throughput screen and DOE statistical tools for process development techniques is desired.
* Experience with automated systems and programming is a strong plus
* Experience in author & technical review on supporting documentations for CMC and regulatory filings is a strong plus.
* Experience in cGMP requirements for early phase development is a plus.
* An ability to work independently, meet deadlines and prioritize work effectively. Must be able to thrive and deliver results on goals in a fast-paced, dynamic and highly multi-tasking environment.
* Demonstrated capabilities to implement advance technologies and persist to successful outcomes.
* Experience in large-scale process of mRNA automation synthesis and purification is highly desired.