Aviceda Therapeutics: *Principal Scientist / Associate Director (CMC - Synthetic Carbohydrate Process Chemistry / Glycobiology)*

Aviceda Therapeutics is a biotech company focused on the next generation of glyco-immune therapeutics (GCT's) leveraging the Glyco-Code® technology platform to address inflammatory diseases of the innate immune system.

At Aviceda, we exploit a unique family of receptors found expressed on all innate immune cells and their associated glycobiological interactions to develop transformative medicines. Combining the power of our biology with our innovative cell-based high-throughput screening (HTS) platform and proprietary nanoparticle technology, Aviceda was able to modulate the innate immune response specifically and profoundly.

Aviceda has assembled a world-class, cross-disciplinary team of recognized scientists, clinicians, and drug developers to tackle devastating ocular & systemic degenerative, fibrotic, neurological, and immuno-inflammatory diseases.

Aviceda's offices/lab are based in Kendall Square, Cambridge, Massachusetts.

Aviceda Therapeutics is an equal opportunity employer offering competitive cash and stock compensation, excellent employee benefits and the opportunity for personal and professional growth in an outstanding and intellectually challenging environment.

Job Description:

Aviceda is looking for a highly skilled, motivated, and creative leader to join CMC Technical Operations & Manufacturing organization as a Principal Scientist / Associate Director. The successful candidate will also play a key role in establishing Lab Scale Process Models, and support establishment of internal pilot plant, process scale-up, and technical transfer to external CDMOs for manufacturing of phase appropriate clinical trial material drug substance through commercialization of Aviceda's nanoparticle based Glyco-Therapeutics.

Responsibilities (Technical & Operational):

Own, execute and improve the CMC Technical Operations & Manufacturing team's deliverables as follows:

- Ability to independently lead glycobiology projects with minimum supervision.

- Design, develop and deliver safe, cost-effective and robust drug manufacturing processes, in time for GMP manufacturing of phase appropriate clinical trial material through commercial product launch.

- Expand the adoption of modern chemistry technologies such as Complex Carbohydrates modifications / synthesis, biocatalysis, High Throughput Experimentation, chemistry, automation and predictive data sciences, to establish Aviceda's reputation as a premier nanoparticle based Glyco-Therapeutics innovative company

- Hands on lab experience in designing glycan arrays and multi-step chemical and enzymatic synthesis of complex carbohydrates and cell-based high-throughput screening (HTS) platform. Independently perform tasks required for successful daily operation of the lab, preparation of lab reagents as required for the study.

- Develop and establish robust Lab Scale Process Model for complex carbohydrate chemical synthesis of intermediates and bulk drug substance to support process scale-up, technical transfer to internal or external manufacturing GMP facilities for supply of phase appropriate clinical trial material.

- Expected to be accountable for effectiveness and timeliness completion of milestones and project goals.

- Develop and establish robust Lab Scale Process Model for complex carbohydrate chemical synthesis of intermediates and bulk drug substance to support process scale-up, technical transfer to internal or external manufacturing GMP facilities for supply of phase appropriate clinical trial material.

- Work closely with cross-functional groups internally and at other sites (CDMO & CRO) to ensure the design and scale up of processes, instruments & equipment from the laboratory, through pilot scale are executable by manufacturing operations when moving into full-scale manufacturing.

- Planning, development, and implementation of new and robust chemical synthesis process for intermediates and final drug substance, establish operating equipment specifications and the improvement of manufacturing techniques and new process equipment introduction.

- Partner with Research and Development teams to ensure technology and process solutions are meaningful, compatible, and executed successfully.

- Support the Business Development function by providing technical expertise for 'process fit' evaluations for the development of responses to RFPs.

- Exceptional analytical problem-solving skills, including the ability to drive the resolution of complex issues where analysis of events or data requires an in-depth knowledge of process and equipment performance.

- Participate in the corporate development of methods, techniques, and evaluation criteria to projects programs and people.

- Encourage the use of Lean concepts, while fostering and advocating a continuous improvement mindset and culture throughout the organization, by encouraging experimentation and learning.

Qualifications:

- PhD or MS in Synthetic Carbohydrate Chemistry/Glycochemistry, Pharmaceutical Chemistry, Organic Chemistry, Analytical Chemistry, or related scientific discipline
- 10+ years of experience in Synthetic Carbohydrate Chemistry/Glycochemistry pharmaceutical or biotechnology CMC/GMP environment and experience in small molecule manufacturing
- Candidates must display an ability to independently design and execute chemical synthesis process research.
- Experience in carbohydrate polymers conjugation with nanoparticle, antibody-drug conjugates, and other delivery vehicles.
- Experience in synthetic carbohydrate process chemistry/chemo-enzymatic methods for preparation of glycan and tech-transfer to manufacturing.
- Ability to understand the efficacy of different biologic therapeutics and how these are affected by the glycosylation in tumor cells/other immune cells.
- Synthesis of different ligand for drug-compound library, familiarity in chemo-enzymatic methods for preparation of glycan arrays.
- Experience in managing International CRO/CDMOs for the manufacture of GMP APIs Experience in supply chain management would be a plus.
- Experience with IND, CTA and NDA filings; thorough knowledge of relevant FDA and EMEA regulations and guidelines
- Proven track record of strong cross-functional skills, interacting effectively both internally and externally
- Demonstrated record of success as evidenced by progression of multiple drug candidates into clinical trials
- Computer Skills: Advance knowledge of Excel, Word, PowerPoint and Graphpad prism;
- Effective communicator in both oral and written form.

Job Location: Cambridge, MA.

Job Type: Full-time.

Travel: As needed (~10%)

Work authorization: work authorization in US is required.

If you are interested in learning more about this position, please send your CV or Resume to careers@avicedarx.com