

## BIOINFORMATICS & PLATFORM DEVELOPMENT MANAGER

Lantern Pharma is seeking a talented and highly motivated computational biologist and bioinformatics scientist to build and enhance our drug positioning AI platform that can predict drug response, therapeutic benefit and survival outcome of cancer patients, and generate biomarkers for specific cancer types for a drug candidate of interest.

Candidates must have a passion to solve world problems in cancer treatment using bioinformatics and computer science with an involvement in optimizing our core bioinformatics workflows, computational algorithms, and AI-based algorithms to improve their level of robustness, effectiveness, and efficiency.

### RESPONSIBILITIES

- Leveraging cutting-edge Machine Learning technology to develop clinically relevant AI platforms for discovery of drug-tumor-specific biomarkers
- Designing biologically-meaningful optimization and validation strategies to assess the applicability and relevance of the set of biomarkers
- Applying biomarkers to larger data sets and developing optimal approaches for patient stratification
- Incorporating multi-omics (RNAseq, NGS, proteomics, mutation, methylation) data to the current workflow to strengthen the platform
- Integrating systems biology and statistical analysis to identify druggable tumor signaling pathways
- Assisting the data scientists to apply Machine Learning/Deep Learning algorithms on biological data
- Identifying institutions/companies to collaborate with and get data access
- Processing, analyzing, and interpreting high volumes of data for the development and validation of methods
- Collaborating with other informatics scientists, academic experts, and statisticians around data analysis methods and solutions for automated workflows and database creation
- Implementing, executing, and documenting bioinformatics pipelines and workflows



- Publishing scientific papers and posters and presenting the platform and its findings effectively in conferences/meetings

## QUALIFICATIONS

- PhD in Bioinformatics, Biostatistics, Computational Biology, Computer Science or other related field or Masters degree with 3+ years of relevant experience
- At least 2-3 years of experience in scripting languages like R, Perl & Python
- Solid understanding and 2+ years of hands-on experience with statistics, data mining, machine learning, and statistical data modeling techniques
- Familiarity with fundamental concepts in molecular biology, chemical biology, statistics, and bioinformatics
- Acquiring a broad knowledge of multiple sectors in the life sciences and NGS technology
- Experience using NGS data for one of the following: biomarker discovery, drug target identification, large cohort analysis, patient stratification
- Demonstrating technical and thought leadership and ability to influence and guide the work of others
- Excellent interpersonal and communication skills, with strong written and verbal presentation
- Background in oncology or clinical experience
- Familiarity with raw NGS data processing is highly preferred
- Knowledge and experience of online bioinformatics analysis tools & softwares
- Experience working with cloud computing
- Must be able to work in a fast-paced and team-oriented environment

Lantern Pharma provides multiple growth opportunities and as an early employee, your work will have a direct impact on precision oncology that can change the drug development and clinical trial model. In addition to attractive compensation, and benefits, we offer perks like unlimited vacation/sick days, subsidized gym memberships, and global travel opportunities to leading conferences and industry trade shows.