



## SENIOR DATA SCIENTIST

Lantern Pharma is seeking a talented and highly motivated Senior Data Scientist to build and enhance our drug rescue and repositioning 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.

The ideal future team member must possess a passion to solve real world problems in cancer treatment using leading-edge Artificial Intelligence and Machine Learning techniques with an involvement in optimizing our core bioinformatics, computational and AI algorithms to improve their level of robustness, effectiveness, efficiency and performance.

### RESPONSIBILITIES:

- Identifying, building genomics and clinical trials database from multiple data sources and improving data acquisition strategies
- Integrating data from multiple sources, normalizing data, building database and providing data management using SQL, Big Data methodologies to store genomics and clinical data
- Conducting statistical analysis to identify predictive gene signatures from transcriptomics data
- Leveraging state-of-the-art machine learning models to answer complex biological questions
- Developing novel machine learning algorithms, optimizing and implementing them in production environment
- Using machine learning (supervised and unsupervised) to understand the drug's mechanism of action and gene interactions
- Performing data mining and clustering analysis on RWE patient data to derive insights/biomarkers
- Generating insightful visualizations for Scientific Publications and Posters
- Developing and maintaining cloud computing infrastructure using AWS and IBM

### BASIC QUALIFICATIONS:

- M.S with 3+ years of relevant experience in Computer Science, Applied Mathematics, Statistics, Computational Biology or related STEM field (Ph.D preferred)
- 2+ years of experience in predictive analytics, machine learning, optimization and deployment
- Experience in building machine learning models from proof of concept to deployment in production environment
- Proficiency in programming languages such as R, Python, MATLAB is required
- Experience with data visualization tools such as Tableau, GGplot, Matplotlib, D3, Plot.ly
- Experience with high performance computing in cloud-based environment such as AWS, Google Cloud, IBM and Azure
- Experience in version control (GitHub, SVN)



- Experience in Computational Biology, Bioinformatics or closely related field
- Experience working with microarray, RNA-seq, NGS, other omics and high-dimensional biological data
- Knowledge of cancer biology, genomics is highly preferred
- Publications in machine learning journals and/or conferences is highly preferred
- Detail-oriented and self-motivated with proficient reasoning skills in experimental design, data analysis and interpretation
- Quick learner, extremely flexible and adaptable to the needs of internal scientists in a dynamic environment
- Excellent verbal and written communication skills and ability to present analyses to a multi-disciplinary team of clinicians and scientists

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.