Nucleome Therapeutics

Unlocking the non-coding genome for drug discovery and development

MACHINE LEARNING ENGINEER/ SENIOR MACHINE LEARNING ENGINEER

COMPENSATION: competitive + share options
LOCATION: BioEscalator, Old Road Campus, Oxford
HOURS: Full-time
CONTRACT TYPE: Permanent

NUCLEOME THERAPEUTICS is an exciting new venture that just spun out from a decade of research at Oxford University with the aim to unlock the non-coding part of the genome to help deliver life changing treatments.

We are building a passionate, creative and dedicated multi-disciplinary team of scientists with expertise in gene regulation, genomics, machine learning, data analysis and software development. Whose mission is to decode and mine the regulatory "dark matter" of the human genome to transform drug target discovery. We are building a rewarding and fun environment where people embrace creative ways of thinking, take smart risks, and feel empowered to make a difference.

We are looking for **machine learning engineer/ senior machine learning engineer** who loves to mine information from complex datasets, is a self-starter, proactive and want to work in a dynamic environment of a start-up. As an early member of the team, you will have an integral role in the venture and take ownership of the work.

You will design and implement novel Machine Learning models in order to identify the sequences in our genomes that underlie human disease and guide therapeutic development.

WHAT WE ARE LOOKING FOR

REQUIRED EXPERIENCE/SKILLS:

- Background in Statistics, Data Science, Machine Learning or related discipline.
- Experience with deep learning, transfer learning or reinforcement learning.
- Extensive experience with machine learning libraries, such as Scikit-learn, TensorFlow, Keras etc.
- Strong programming skills in R and/or Python.
- Interest in gene regulation and genomics.
- Ability to work independently as well as a member of a multidisciplinary team.
- Strong communication skills and ability to communicate complex ideas to both technical and non-technical audiences.
- Flexible and co-operative approach to colleagues.
- Strong organisational and time management skills; as well as ability to prioritise and balance competing demands.
- A positive can-do and result-oriented attitude, with openness to new ideas and ability to work flexibly in a dynamic environment.

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PREFERRED EXPERIENCE/SKILLS:

- Strong experience with Machine Learning methods, applied to biological data
- Demonstrable experience in collecting, mining and visualising complex biological data.
- Track record of working with genomics data.
- Working knowledge of bioinformatics or statistical genetics tools and databases.
- Experience with relational or non-relational database management systems.
- Experience with Amazon Web Services (AWS) or related service.
- Strong organisational skills to track data and record downstream analysis.
- Experience supporting and collaborating with non-computational biologists.
- Experience in industry.

To apply please send us your CV at careers@nucleome.com. If you know someone who could be a good fit, please share this posting with them.

At Nucleome Therapeutics equality, diversity and inclusion is really important to us. We welcome applications from all candidates irrespective of age, disability, gender, gender identity, sexual orientation, race, religion or belief, or marital or civil partnership status.