VACANCY – LEAD BIOINFORMATICS SCIENTIST

Enhanc3D Genomics is a functional genomics spinout company from the Babraham Institute (Cambridge, UK) leveraging a disruptive technology to profile three-dimensional (3D) genome folding at high resolution.

Enhanc3D Genomics is an innovative and dynamic company with diverse and highly engaged staff. We believe in fostering great teamwork to maximise our collective skills and experience.

We are passionate about realising the power of 3D genomics by developing new cutting-edge technologies for therapeutic discoveries.

Role Profile

We are looking for a forward thinking, enthusiastic, highly motivated senior level **Lead Bioinformatics Scientist** to build out the analysis and interpretation function tackling complex data science across the spectrum of EG's R&D. Enthusiasm and passion to solve research problems combining data science, machine learning and team synergy are key to this role.

The ideal candidate will have a strong background in a quantitative discipline that will cover domains such as biostatistics, bioinformatics and machine learning. Previous experience and domain knowledge in target or biomarker discovery would be highly advantageous to function in this role. Further, experience in team management and reporting to executive management would make for a strong candidate.

You should be an organised professional with exceptional interpersonal and communication skills, enabling you to successfully operate in a business environment where confidentiality and discretion are paramount.

Key Accountabilities

- Lead on bioinformatics, biostatistics and visualisation programmes
- Develop innovative strategies for EG's target discovery / biomarker discovery programmes, including assessment, benchmarking and theoretical development of EG's statistical algorithms and methodology, as well as contribute to efficient computational implementations.
- Contribute and oversee scientific design both for technology development and biological insight end-points
- Produce professional reporting outputs for internal research and external collaborations.
- Work across teams and proactively engage in knowledge sharing and peer support, including training
- Line management

Qualifications and Skills

Essential	Desired
Track record of research in bioinformatics, biostatistics, genomics	Experience with and understanding of Hi-C, capture Hi-C, HiChIP
Experience and strong knowledge of Machine Learning / Deep Learning, SciML (Scientific Machine Learning)	A social personality that contributes to an open, positive, collaborative working climate, and a strong desire to drive personal development
Excellent knowledge of two of Julia, Python and R. Proficient with common data science libraries/toolkits such as Julia data science libraries, Pandas, SciKit-Learn, Numpy, Keras etc.	Proven experience of working in a fast-paced research-driven commercial environment or in collaboration with industry
Experience with Next Generation Sequencing platforms and / or OMICS datasets	A strategic, inquisitive and innovative mindset with the ability to sense commercial opportunities in our data and exploit accordingly
Familiarity with common bioinformatic databases and tools	Delivery skills with the ability to work well under pressure in an agile environment
Knowledge of version control and collaborating with developers using GitHub	Experience with pipeline development and software virtualisation (e.g. docker, singularity)
Excellent oral and written communication skills	
Excellent organizational and record keeping skills	
Programming and statistical data analysis and visualisation experience in R or Python with one or more common ML frameworks (Tensorflow, PyTorch, etc…)	
Experience with variant calling, exome/WGS pipelines or other high-throughput genomics workflows	
Good knowledge of biomarker discovery / target discovery	
Ability to deliver quick wins alongside implementing more advanced modelling techniques	
Line management experience	

To apply for this position, please submit your CV and a covering letter to hr@enhanc3dgenomics.com