VACANCY – SENIOR SCIENTIST

<u>About Enhanc3D Genomics</u>

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. Understanding DNA organisation and long-distance interactions allows to link gene enhancers and non-coding genetic variants to their target genes and holds promise to unlock disease-related genetics for therapeutic discovery.

http://enhanc3dgenomics.com/

<u>Role Description</u>

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.

We are looking for a forward-thinking, enthusiastic, highly motivated **Senior Scientist** to join the technology team currently developing cutting-edge technologies to assay 3D genomic conformations. Enthusiasm and passion to deliver a high-quality finished product are keys to this role. The ideal candidate will have expertise in molecular and cell biology, next-generation sequencing, epigenetics and data analysis as well as a strong desire to work in a fast-paced and stimulating environment.

You will be involved in collaborative projects with academic and commercial research groups to deliver high-quality data reports and develop technologies and ideas, contributing to our IP portfolio. You will be flexible and keen to support the technology development while championing quality in all aspects of your work.

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

Key accountabilities
- Apply common and tailored methods designed to maximise viability of a variety of cell types
- Perform or oversee FACS sorting
- Perform DNA extraction, DNA/RNA quantification and QC using different methods (fluorometry, spectrophotometry, electrophoresis, size, etc.)

- Design experiments
- Develop Hi-C library generation protocols
- Develop sequencing protocols
- Develop sequencing strategies
- Help build and steer the development of 'small' prototype tools for bench scientists to access and visualise project data exploring non-traditional approaches to bring big data together in biologically meaningful ways
- Develop QC standards and introduce quality metrics
- Troubleshoot all aspect of the in-house pipeline
- Liaise with, and support projects with, academic collaborators and industrial partners
- In collaboration with the data science team build a 'tissue atlas' database for research and development purposes
- Write SOPs, risk assessments, and work instructions
- Produce reports for internal research and external collaborations
- Work across departments and proactively engage in knowledge sharing and peer support, including training of laboratory technicians and scientists
- Champion H&S and quality compliance within the team
- Discuss scientific findings and provide written and verbal project progress reports and updates
- Flexibility to perform other duties which may be required

Required Skills and Abilities

- Ability to design experiments, problem solve, troubleshoot and assess technology performance
- Ability to work independently and within a group but be able to recognise when to seek help
- Excellent oral and written communication skills
- Excellent organisational and record keeping skills
- Able to collaborate with industry and academia
- Good understanding of Laboratory Health and Safety

Qualification and Experience

- PhD and postdoctoral research, or equivalent experience with formal training and proven expertise, in a biology-based discipline such as genetics, molecular biology or biochemistry
- Demonstrable expertise in a wide range of molecular biology techniques including DNA extraction, quantification, amplification, modification, purification, 'omics' techniques
- Experience with Next-Generation Sequencing platforms and library preparation

- Demonstratable experience of innovation and development of cutting-edge technologies
- Proven experience of working in a fast-paced research-driven commercial environment or in collaboration with industry
- Experience using cell culture techniques
- Preferable experience with and understanding of Hi-C, targeted capture, HiChIP, RNA-Seq, ATAC-Seq
- Preferable experience with gene editing methods such as CRISPR/Cas9

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