**VACANCY – Bioinformatics Engineer**

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 Software/Data Engineer who can develop, harden and support the Enhanc3D data and technology platform. The ideal candidate is someone with a strong background in data management and software development, and experience with bioinformatics workflows in a genomics environment.

**Key accountabilities**:

* Create, organise and administer data and bioinformatics pipelines
* Review software architecture, design and code written by other members of the team and take a technical lead role for one or more features.
* Produce high quality code, including automated testing following coding best practices, and leading on code and data reviews.
* Drive efficiencies in software development processes and tooling
* Ensure that implemented solutions adhere to the various standards and accreditations required for both laboratory practice and software delivery
* Implement software solutions for high-throughput genome analysis and interpretation
* Optimisation of cloud computing resources
* Stay at the cutting edge of software development and bioinformatics
* Recommend best practice in development procedures.
* Manage cloud computing resources and continue to build out our IaC capability
* Support and interact with data scientists and laboratory staff as required

**Qualifications and Skills**

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| **Essential** | **Desired**  |
| Excellent knowledge of two of more of Julia, Python and/or R.  | Proven experience of working in a fast-paced research-driven commercial environment or in collaboration with industry |
| Good knowledge of automation tools, bash, and unix based operating systems | Technical expertise in either bioinformatics,computational biology, biostatistics,mathematical modelling or data science |
| Experience of continuous integrationworkflows and platforms preferably within DataScience.  | Experience with and understanding of Hi-C, capture Hi-C, HiChIP |
| Knowledge of version control andcollaborating with developers using GitHub | Proficient understanding of basic statistics i.e. statistical distributions, hypothesis testing |
| Strong knowledge of core cloud computing services (AWS EC2, VPC/networking, and ideally Batch, or equivalent services from another major cloud provider) | A social personality that contributes to anopen, positive, collaborative working climate, and a strong desire to drive personal development  |
| Interest in and knowledge of Cybersecurity |  |
| Knowledge of Next Generation Sequencingplatforms and / or OMICS datasets |  |
| Relational and non-relational database experience  |  |
| Proficiency with common data sciencelibraries/toolkits such as Pandas, SciKit-Learn, Numpy, Keras etc. |  |
| Experience with containerisation (e.g. docker,singularity) and workflow managementsoftware such as (e.g. NextFlow, Cromwell, or AWS Step Functions) |  |
| Delivery skills with the ability to work wellunder pressure in an agile environment |  |
| Excellent oral and written communicationskills |  |
| Excellent organizational and record keepingskills |  |

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