

Job Description

Senior Genetics Data Scientist		
Grade:	5	Grade Responsibilities:
Salary:	Highly competitive salary depending on experience, with extensive benefits	<ul style="list-style-type: none"> ▪ Provide leadership or management to key projects within area of expertise. ▪ Apply knowledge in area of specialism to influence project progression. ▪ Make independent decisions that determine the successful delivery of project outcomes. ▪ Proactively troubleshoot to identify solutions to problems in own area of work. ▪ Contribute ideas to improve working practices.
Location:	Hybrid working coupled with office – London Office	
Reporting to:	Senior VP Drug Discovery	

The Company

C4X Discovery is a pioneering Drug Discovery company combining scientific expertise with cutting-edge technologies to efficiently deliver world leading medicines. We have a highly valuable and differentiated approach to Drug Discovery through our enhanced candidate molecule design and patient stratification capabilities, generating small molecule drug candidates across multiple disease areas focussed on immuno-inflammation.

Our commercially attractive portfolio ranges from early-stage target opportunities to late-stage Drug Discovery programmes, We have three commercially partnered programmes with one candidate in clinical development.

The Role

The Human Genomics team at C4XD is a multidisciplinary group of Data Scientists and Bioinformaticians who work with genetics and multimodal datasets to provide data-driven insights for complex diseases to advance drug discovery and precision medicine within C4XD. PatientSeek is C4XD's precision medicine platform, which applies the unique mathematical approach of Taxonomy3® to stratify patients for novel treatments based on their genetics with multi-modal phenotypic data.

Responsibilities

- Build and refine predictive models for precision medicine diagnostics using AI and ML approaches.
- Analyse genetic, phenotypic and multi-omic datasets using C4XD's precision medicine platform, PatientSeek.
- Develop new analytical features for the PatientSeek precision medicine platform.
- Coordinate with other researchers in C4XD and external collaborators to ensure the projects progress smoothly and efficiently.
- Communicate results to the wider C4XD organisation.
- Ensure record keeping and archiving of data is up to date and accurate.
- Ensure C4XD and external data privacy policies are adhered to.
- Support business development activities when required.
- Support reputational building with publications and poster and oral presentations at conferences.

- Support appropriate protection of genetic and biological intellectual property.

Education & Experience / Technical Skills

Essential

- Ph.D. (or M.Sc. + relevant experience) in data science, biostatistics, bioinformatics or equivalent experience.
- Experience working with large biological datasets (omics, EHR, RWE, clinical phenotypes).
- Experience working with Machine Learning / Artificial Intelligence methods.
- Knowledge and understanding of data privacy issues and requirements.
- Experience with IT tools (e.g. cloud computing, AWS, Linux, HPC), programming languages (e.g. R, Python, SQL, bash), and version control management (e.g. git).
- Highly self-motivated, flexible and organised.
- The ability to work independently but know when additional input is required.
- Excellent communication and presentation skills.
- Creative thinking and enthusiasm for innovation.

Desirable

- Knowledge and understanding of Bayesian statistical methods
- Experience modelling diverse datasets (ideally biological / clinical)
- Experience working with longitudinal biological or clinical data
- Experience of working in a multi-disciplinary team in a biotech or pharma setting
- Knowledge of immuno-inflammatory diseases (e.g. rheumatoid arthritis, IBD)