COMPUTATIONAL GENOMICS SCIENTIST

£ Competitive Salary

YOUSEQ

We're on the lookout for a driven Computational Genomics Scientist with a strong background in NGS to join our expanding team. At YouSeq, we leverage human genetic and genomic data to understand disease risk. If you're enthusiastic about utilising genomics to drive scientific innovation—especially in areas like oncogenetics—you might be the perfect fit for our team.

Experience with genomic data analysis is essential, and a solid understanding of targeted sequencing methods, such as whole exome sequencing, would be a huge advantage. Hands-on wet lab experience is also a plus, but not a requirement.

This role sits within our Computational Genomics function, which focuses on applying the power of genomics to accelerate innovation in molecular testing. You'll collaborate with cross-functional teams and external partners to develop and optimise pipelines for large-scale genomic data analysis. You'll play a critical role in bridging scientific questions with cutting-edge bioinformatics solutions while working seamlessly with colleagues across computational and experimental disciplines.

Key Responsibilities:

Design, update, and maintain pipelines to automate the identification of variants from large-scale sequencing data, iterating on analysis processes, in partnership with team members as well as (external) collaborators

Assist in the planning of studies leveraging genetic and genomic data to answer critical biological questions with regards to the molecular characterisation of disease risk

Collaborate with project teams, acting as the computational biology expert, to identify key needs and questions that can be addressed using genomics, sequencing, or bioinformatics in general

Follow relevant cutting-edge advancements in the fast-paced field of genomics, bringing developments in-house or building upon them as appropriate

Partner with team members to improve or expand computational methods and develop best-practice, easy-to-use analytical workflows to answer common genomics questions

Minimum Qualifications:

- PhD (or exceptional MSc) in computational biology, statistical genetics, bioinformatics, bioengineering, machine learning, or a related field
- Experience developing bioinformatics pipelines using Nextflow (required) and proficiency in programming languages like Python, R, Bash, Julia, CWL or similar
- Proven track record in analysing, visualising, and interpreting NGS and genomic data
- Strong organisational and time-management skills to prioritise effectively and drive projects to completion.
- Excellent communication and presentation skills, with the ability to explain complex findings to both technical and non-technical audiences

Preferred Qualifications

- Deep scientific understanding of genetic variation in human disease, molecular biology, or cellular biology—especially within oncology.
- Experience working in Linux/Unix environments.
- Solid foundation in statistical principles with experience in method development or optimisation.
- A collaborative and proactive mindset, with the ability to thrive in a team environment and overcome challenges with enthusiasm.

Job type: Full time

Work location: Laboratory/office based (Winchester)

Benefits:

- Private Medical Insurance
- Life insurance
- Bonus scheme
- Casual dress
- Company events
- On-site parking

If you would like to apply, please forward a covering letter and CV to hr@youseq.com