

Position: Lead Computational Biologist / Bioinformatician

Location: The Milner Therapeutics Institute, Cambridge, UK (hybrid position, at most 50% remote)

Type: Full-Time

About clock.bio

At clock.bio, we believe that ageing, while natural, is not inevitable. As the shared risk factor of the deadliest diseases, the process of ageing forms the core of our focus. Our mission is to develop novel therapeutic pathways for treating age-related diseases, using the regenerative power of pluripotent stem cells.

As a fast-paced biotech startup, we are looking for a Lead Computational Biologist / Bioinformatician who shares our vision of a future where health is our default state and is excited about the opportunity to make a significant impact on our mission.

Role

The Lead Computational Biologist / Bioinformatician will play a pivotal role as the first internal full-time bioinformatics role, inheriting existing infrastructure and collaborating with ongoing bioinformatic contractors. The role will primarily be research-focused, including hands-on analysis of all omic data produced by clock.bio, and contextualising it with respect to datasets from external studies.

In addition to research, the role will also include data management duties and collaboration with teams in other locations and time zones. Given the startup nature of clock.bio, there will be opportunities for the individual to wear multiple hats and contribute to various aspects of the business.

Responsibilities

- The candidate will lead the bioinformatic endeavours of clock.bio, acting as the "in house" bioinformatic thought leader.
- Analyse high dimension NGS data including both bulk and single-cell RNA-seq and ATAC-seq data from pooled CRISPR screens.
- Provide input to the computational biology strategy and take responsibility for its day-to-day execution working with cross-functional partners and leadership teams.
- Build data collection, data annotation, and data cleaning workflows, and compile datasets for specific projects and downstream in-depth data analyses.
- Assess new model systems of ageing and rejuvenation and provide insights into their potential application in our mission.
- Work with bench scientists by guiding experimental workflows and quantitative measurement to ensure statistical rigour and help build data visualisations.

Qualifications

- PhD in relevant biology area, such as computational or system biology, or cell biology with exposure to bioinformatics.
- Minimum of 6 years of post-PhD life sciences research experience, of which at least 5 years should have been spent doing bioinformatics, preferably in biotech or pharma.
- Proficiency in R or Python, and familiarity with workflow management tools such as snakemake or Nextflow. Basic proficiency with databases is expected.
- Experience with analysis of bulk and single cell RNA-seq data and preferably with pooled CRISPR screens, ATAC-seq analysis, DNA methylation age clocks, data from in vitro models, and ageing biology.
- Experience working in HPC or cloud environments, familiarity with ML tools and packages and working with databases (preferred MongoDB).
- Ability to communicate complex topics to non-bioinformaticians.
- Excellent attention to detail, the ability to work independently, and strong communication skills.

What we offer

Join our dynamic team at clock.bio with a competitive salary range of £70,000 - £85,000 per year, based on experience. Benefit from our salary sacrifice pension scheme, Life cover, Sickness benefit, and Cyclescheme. Thrive in our startup environment where professional growth, continuous learning, and making a significant impact on our mission await you. We value diversity, teamwork, and excellence. Experience a supportive workplace that fosters innovation and collaboration. Apply now to embark on an exciting journey with clock.bio to improve health span.

Please apply to careers@clock.bio