

Scientist, Computational Biology & Bioinformatics

Syros Pharmaceuticals is pioneering the understanding of the non-coding region of the genome to advance a new wave of medicines that control expression of disease-driving genes. Syros has built a proprietary platform to systematically and efficiently analyze this unexploited region of DNA in human disease tissue to identify and drug novel targets linked to genomically defined patient populations. Because gene expression is fundamental to the function of all cells, Syros' gene control platform has broad potential to create medicines that achieve profound and durable benefit across a range of diseases. Syros is currently focused on cancer, immune-mediated, and genetic diseases and is advancing a growing pipeline of gene control medicines. Syros' leading drug candidates are SY-1425, a selective RAR α agonist in a Phase 2 clinical trial for genomically defined subsets of patients with acute myeloid leukemia and myelodysplastic syndrome, and SY-1365, a selective CDK7 inhibitor with potential in a range of solid tumors and blood cancers. Led by a team with deep experience in drug discovery, development and commercialization, Syros is located in Cambridge, Massachusetts.

Syros Pharmaceuticals is seeking a computational biologist / bioinformatics scientist with a passion for using analytical techniques to solve critical biology problems within a large-scale data environment. Syros is using recent fundamental insights into transcriptional regulation to discover and develop novel medicines targeting gene control. The right candidate will join a team of highly motivated, cross-disciplinary scientists, and will be responsible for implementing analyses that directly enable Syros's drug discovery platform. This critical and dynamic role requires a solid foundation in genomics and data analysis, with techniques including but not limited to gene expression analysis, epigenomic & ChIP-seq analysis, whole-genome variant identification and interpretation, and biomarker discovery.

Responsibilities:

- Execute computational analyses to support drug and biomarker discovery on a wide range of genomics projects.
- Work closely with bench scientists to provide actionable predictions that can be tested in the lab.
- Communicate results in both presentation and report formats.

Qualified candidates must be able to demonstrate experience in testing biological hypotheses with high throughput genomics data. A solid understanding of statistical and algorithmic principles is essential, as is the flexibility to work on multiple projects as part of a dynamic, fast-paced team. Demonstrated proficiency in a commonly used programming language is critical, and analysis experience within R is strongly preferred.


Specific requirements include, but are not limited to:

- PhD in Computational Biology or related field, or masters with equivalent work experience.
- Demonstrated experience answering biological questions with computational analysis of genomics data.
- Fluency in R and in one or more programming languages (Perl, Python or Java)
- Knowledge of transcriptional regulation and/or cancer, immunology, or genetic disease biology.
- Strong attention to detail and the ability to handle multiple tasks.
- Desire and ability to work in a cross-functional, fast-paced, and flexible team-oriented environment.
- Strong interpersonal and communication skills.

Preferences:

- Strong statistics background.
- Experience working within a UNIX environment
- Experience with biomarker discovery & gene pathway analysis.
- Experience ascribing function to non-coding variants.
- Familiarity with major biological datasets (GEO, TCGA, CCLE, COSMIC, ENCODE).
- Experience in human drug-discovery research.

Finally, the candidate will need to embrace our values:

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As a team we:

- are committed to transform the lives of patients
- are pioneering in our science
- challenge each other to achieve excellence
- work with passion, integrity and respect
- like rigorous work and serious fun

Candidates who are enthusiastic, creative, and have a passion for applying genomics to drug discovery are encouraged to apply. Please send a resume and cover letter to careers@syros.com.