



# (Senior) Principal Scientist, Computational / Systems Biology

Cambridge, MA

Systems And Target Biology / Full-Time / Hybrid

## About Us

Deep Genomics is at the forefront of using artificial intelligence to transform drug discovery. Our proprietary AI platform decodes the complexity of genome biology to identify novel drug targets, mechanisms, and genetic medicines inaccessible through traditional methods. With expertise spanning machine learning, bioinformatics, data science, engineering, and drug development, our multidisciplinary team in Toronto and Cambridge, MA is revolutionizing how new medicines are created.

## Where You Fit In

In this role, you will be responsible for leveraging large-scale genetic data-sets to find potential targets and molecular mechanisms for oligonucleotide therapeutics. You will lead the development and implementation of analysis methods, automated data processing and visualization pipelines for large-scale -omics data. You will organize the activities of bioinformatic scientists and data scientists, and collaborate with other teams, including statistical genetics, ML science, engineering, and biology teams.

## Key Requirements

- PhD in Computer Science, Bioinformatics, Genomics or related fields with at least 5 years of work experience, preferably in industry setting

- Extensive experience with -omic data processing and developing standardized processing and analysis pipelines e.g., transcriptomic, proteomics datasets
- Experience with single-cell analyses, including single-cell RNA-seq data processing and analysis. Experience with additional technologies such as single-cell ATAC is nice to have
- Experience in visualization of complex genomic data, and automated report generation
- Ability to perform differential expression, gene co-expression or network analyses
- Strong scientific programming skills (Python preferred) and experience with high-throughput or cloud compute (especially GCP)
- Basic understanding of human genetics, such as genomic regions and regulation (e.g., exons, introns, enhancers, promoters, transcription, translation, micrRNAs, RNA-binding proteins etc.); basic understanding of human biology and disease
- Previous work experience in cardiometabolic or CNS diseases is desirable
- Familiarity with machine learning or AI models in the context of -omics is an advantage but not required
- Previous experience in managing direct reports and/or external vendors is desirable
- Self-driven with critical thinking, intellectual curiosity and commitment to innovation
- Excellent communication and interpersonal skills

## What we offer


- A collaborative and innovative environment at the frontier of computational biology, machine learning, and drug discovery.
- Highly competitive compensation, including meaningful stock ownership.
- Comprehensive benefits - including health, vision, and dental coverage for employees and families, employee and family assistance program.
- Flexible work environment - including flexible hours, extended long weekends, holiday shutdown, unlimited personal days.
- Maternity and parental leave top-up coverage, as well as new parent paid time off.
- Focus on learning and growth for all employees - learning and development budget & lunch and learns.

- Facilities located in the heart of Toronto - the epicenter of machine learning and AI research and development, and in Kendall Square, Cambridge, Mass. - a global center of biotechnology and life sciences.

Deep Genomics welcomes and encourages applications from people with disabilities. Accommodations are available on request for candidates taking part in all aspects of the selection process.

Deep Genomics thanks all applicants, however only those selected for an interview will be contacted.

[Deep Genomics Home Page](#)

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