

## Bioinformatics Scientist (Genomics)

### Position Summary

MedGenome, Inc. is seeking a Bioinformatics Scientist for its Genomic Medicines division. We are looking for a computational biologist/bioinformatician with experience in high-throughput biological data analysis and a strong interest in working on genome-scale research projects using statistical modeling and machine learning approaches. You will help in study design, data collection strategies and interpret results by integrating data from external sources. You will work closely with a highly interdisciplinary group of scientists with a broad range of expertise (genomics, molecular biology, oncology, etc.) both within and outside the organization. You are expected to publish findings from such studies in peer-reviewed journals [please see recent publications in *Nature* (December, 2019), *Journal of American College of Cardiology* (August, 2020), *bioRxiv* (October, 2020), *Scientific Reports* (November, 2020)]. We are seeking a creative, scientifically driven individual with attention to detail, an ability to multitask, excellent communications skills that includes being able to present study results in a clear and concise fashion to a diverse set of audience that included both specialists and non-specialists.

### Key Responsibilities

- Analyze high-throughput DNA and RNA sequencing data from bulk and single cell platforms and work with our team of scientists to address specific biological questions
- Develop new computational pipelines and visualization tools for analyzing and interpreting genomic data
- Work with the Genomic Medicine team to help in experimental design, and advice on statistical best practices and analysis plans
- Analysis of published and publicly available biological datasets and their integration to facilitate synthesis, interpretation and hypothesis generation
- Preparing figures for presentation and publication in scientific journals.
- Be accountable for the representation and promotion of the scientific interests of the company via the publication of papers, the giving of scientific presentations, and by encouraging and identifying new research and funding opportunities.
- Stay up-to-date with available bioinformatics tools through literature review and computational experiments

### Qualifications And Experience

- PhD in Bioinformatics, Statistical Genetics, Computer Science, Genomics or similar field required.
- Minimum of 2+ years of relevant work experience in the industry or academia.
- Working knowledge of emerging approaches to best utilize human genetic data; for example, quantitative trait analysis, multi-phenotype analysis, or genetic risk score methodologies.
- Demonstrated experience in using Next generation sequencing pipelines and other 'omics data analysis platforms (bulk or single-cell RNA-seq, WGS, WES, etc) and familiarity with best practices for analyzing genomics data.
- Experience programming in Python, Perl, Java and/or R
- Experience using Linux command-line tools and writing shell scripts
- Knowledge of the key public reference databases for human diseases and clinical genetic variation data (OMIM, dbSNP, ClinVar, ExAC, etc)
- Experience using high-performance computing environments and cloud services/management systems
- Experience analyzing, troubleshooting and problem-solving technical issues involving complex data
- Demonstrated success via first or senior author publications in peer-reviewed journals, both from graduate and postdoctoral work.
- Ability to work independently as well as part of a team
- Ability to summarize results verbally and in written form
- Self-motivated and detail-oriented

### About us


MedGenome Inc. is a leading genomics-driven research and diagnostic services company. Our mission is to improve global health by decoding the genetic information contained in an individual's genome. We are dedicated to accelerating scientific discovery, as well as to developing and delivering innovative solutions for basic research, translational medicine and healthcare by leveraging our deep expertise and experience in biology and bioinformatics. Our unique access to genomics data with clinical and phenotypic data enables us to provide insights into complex diseases at the genetic and molecular level to facilitate research in personalized healthcare.

MedGenome is proud to be an Equal Opportunity Employer. We are committed to ensuring a diverse and inclusive workplace environment, and welcome people of different backgrounds, experiences, abilities and perspectives.

All qualified applicants are encouraged to apply, and will be considered without regard to race, color, religion, gender, gender identity or expression, sexual orientation, national origin, genetics, age, veteran status, disability or any other legally protected status.


Please e-mail your CV to [careers-us@medgenome.com](mailto:careers-us@medgenome.com)

#### Get in touch

 (888) 440-0954

 [research@medgenome.com](mailto:research@medgenome.com)

 <https://research.medgenome.com/>

 MedGenome Inc.  
348 Hatch Drive  
Foster City, CA 94404, USA