

**Job Title:** Computational Biologist (Postdoc/Scientist)

**Location:** 17062 Murphy Ave, Irvine, CA 92614

**Job Type:** Permanent

### **Summary/Contribution Of Position**

The Computational Biologist will work as a core member of the R&D team leading the analytical aspects of product development with in-depth knowledge of a broad range of computational analytical tools and strategies to analyze multi-omic datasets. You will perform and/or supervise the performance of in silico experiments to support RNA research, Epigenetic research, Clinical applications, and other related service as required.

### **Essential Duties And Responsibilities**

- Develop advanced computational methods to enhance research and discovery on epigenomic, transcriptomic and genomic platforms.
- Enhance bioinformatic analysis of diverse NGS and non-NGS datasets, including RNA-seq, WGBS, Targeted sequencing, MicroArray etc.
- Develop innovative, robust, computational and statistics methods that can be applied in research and clinical settings.
- Provide intellectual and technical excellence to guide new discovery strategies. Design, perform, troubleshoot, and interpret experiments
- Present project updates, data analysis at technical and commercial meetings.
- Identify, develop, and manage collaborations and partnerships.

### **Education And Experience**

- PhD or Master in Bioinformatics, Computational Biology, Applied Mathematics, Statistics, Epidemiology, Biological sciences, Cancer biology, Genetics, Genomics, Computer science, or a related discipline with a strong record of publications/patents is required.
- Experience in the analysis of large next-generation sequencing data sets and microarray data.
- Hands-on experience on working with various public and proprietary data repositories, such as TCGA, GTEx, dbSNP, Ensembl, UCSC genome browser.
- Experience with manipulation and innovative analysis (e.g. novel algorithm development) of large biological and/or epidemiology data sets.
- Experience with statistics and/or machine learning.

### **Required Skills**

- Extensive experience in bio-computational programming, scripting, querying or statistical analysis languages such as python or R, as well as Linux OS for high performance computing.

### **Preferred Skills**

- Familiarity with Amazon Web Services EC2 and S3.
- Biological research experience.
- Familiarity with popular bioinformatics command-line tools.
- Experience with building and execution of bioinformatics pipelines.
- Experience with data science tools such as scipy, pandas, scikit-learn, or their equivalencies in R.
- Experience with data visualization tools such as matplotlib, seaborn, plotly, or their equivalencies in R.

### **Core Competencies**

- Scientific knowledge
- Interpersonal skills
- Team Player
- Communication skills - verbal and written
- Listening skills
- Problem analysis and problem-solving
- Attention to detail and accuracy
- Data collection and ordering
- Customer service orientation
- Adaptability
- Initiative
- Stress tolerance
- Ongoing learning and Scientific Reading habits