

Computational Biology Research Positions Sage Bionetworks, Seattle, WA

Sage Bionetworks is a world-leading nonprofit biomedical research organization dedicated to: (1) developing predictive models of disease-related phenotypes through integrative analysis of large-scale genomic data sets; (2) building and supporting an open source compute platform and database to more effectively harness genome-scale data by enabling disease models to be evolved by contributor scientists with a shared vision to accelerate the elimination of human disease.

We are seeking exceptional candidates with strong computational and analytical skills, as well as a desire to work in a multi-disciplinary team. Candidates will work with our large network of experimental and computational collaborators at the Fred Hutchinson Cancer Research Center, Columbia, UCSD, Stanford, Mt. Sinai, Harvard, companies such as Roche, Takeda, AstraZeneca, and with our team of professional software engineers and computational biologists to implement cloud-based computational methods to analyze terabyte-scale genomic datasets.

Applicants are expected to have achieved recognition appropriate for their level as an expert in an area of data-intensive computational systems biology and be able to develop independent lines of research.

We welcome applications for:

Senior Scientist, Computational Biology
Scientific Programmer, Computational Biology
Research Fellow, Computational Biology

Responsibilities

- Develop and implement predictive models of disease phenotypes through integrative analysis of high-dimensional genomic data.
- Develop statistical and machine learning approaches to combine information from diverse data types and prior knowledge derived from related experiments and biological databases.
- Assist in experimental design to validate computational predictions.
- Foster and maintain collaborations with experimental researchers.
- Work with software development team to implement scalable cloud-enabled workflows to disseminate analytical advances to the research community.
- Publish computational innovations and research discoveries in leading journals.
- Develop grant proposals for original research projects.

Required Qualifications for *All Positions*

- An understanding of advanced machine learning or statistical techniques, such as probabilistic graphical models, Bayesian inference, and optimization methods.
- Strong communication skills.
- Strong publication record.
- A desire to change the world and contribute to the elimination of human disease.

Required Qualifications for *Senior Scientists*

- Ph.D. degree in computer science, math, bioinformatics, or relevant quantitative scientific discipline
- Demonstrated excellence in research with evidence of advancing an area of computational biology.
- 5 years of relevant work experience analyzing high-throughput genomics data.

Required Qualifications for *Research Fellows*

- Ph.D. degree in computer science, math, bioinformatics, or relevant quantitative scientific discipline
- 2 years of relevant work experience analyzing high-throughput genomics data.

Required Qualifications for *Scientific Programmers*

- Bachelors or Masters degree in computer science, math, bioinformatics, or relevant quantitative scientific discipline
- 5 years of industry or academic experience analyzing high-throughput genomics data

Desirable Qualifications

- Advanced programming skills.
- Experience in a professional, team-oriented software development environment.
- Experience analyzing high-dimensional genomic data, including DNA or RNA sequencing, gene expression, epigenetics, and SNP array data.
- Demonstrated leadership roles and organizational skills.
- A passion for open-access innovation.

For more information on Sage Bionetworks and our Seattle-based team of researchers, visit www.sagebase.org. To apply, please contact compbiojobs@sagebase.org.