



**Cancer Systems, Senior Scientist  
Sage Bionetworks, Seattle, WA**

We seek exceptional candidates with strong domain experience at the intersection of high-dimensional genomic data and (1) basic cancer biology, (2) clinical cancer biology. Such candidates will have exceptional analytical skills, a strong interest in developing predictive cancer phenotypic models (predictive and/or prognostic biomarkers) and the ability and desire to work in a multi-disciplinary team of biologists, statisticians, machine learning experts, and software engineers.

There will be opportunities to collaborate with our large network of experimental and computational partners at the Fred Hutchinson Cancer Research Center, Columbia, UCSD, Stanford, Mt. Sinai, Harvard, companies such as Roche, Takeda, Astra Zeneca, and with our team of professional software engineers and computational biologists to implement cloud-based computational methods to analyze terabyte-scale genomic datasets.

As a senior scientist, the candidate is expected to lead original research projects advancing new directions in cancer genomics.

Sage Bionetworks is a world leading computational biology research organization dedicated to: (1) open science; (2) developing predictive models of cancer-related phenotypes through integrative analysis of large-scale genomic data sets; (3) building and supporting an open source compute platform and database to more effectively harness genome-scale data by enabling cancer phenotypic models to be evolved by contributor scientists with a shared vision to accelerate the elimination of human disease.

**Responsibilities**

- Develop and implement predictive models of disease phenotypes through integrative analysis of high-dimensional genomic data.
- Develop strategies to extend experimental cancer models to clinical application
- 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.
- Design and lead a multi-investigator research project with industry or academic collaborators.
- Provide expertise and mentorship to Sage Bionetwork researchers.

**Required Qualifications**

- Ph.D. degree in cancer biology, molecular biology, genetics, or genomics.
- Or M.D. degree with oncology-relevant training
- Demonstrated excellence in research with evidence of advancing an area of cancer genomics.
- Strong communication skills.
- Strong publication record.
- 5 years of relevant work experience analyzing high-throughput genomics data.



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

**Desirable Qualifications**

- Experience in biomarker generation or validation
- Experience in early phase clinical trials or therapeutic development
- 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](http://www.sagebase.org). To apply, please contact: [cancerbiojobs@sagebase.org](mailto:cancerbiojobs@sagebase.org).