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Bioinformatics Analyst

Job ID 13621 **Type** Regular Full-Time **Company** Fred Hutchinson Cancer Research Center US-WA-Seattle

Category Biostatistics, Bioinformatics and Computational Biology

Overview

Cures Start Here. At Fred Hutchinson Cancer Research Center, home to three Nobel laureates, interdisciplinary teams of world-renowned scientists seek new and innovative ways to prevent, diagnose and treat cancer, HIV/AIDS and other life-threatening diseases. Fred Hutch's pioneering work in bone marrow transplantation led to the development of immunotherapy, which harnesses the power of the immune system to treat cancer. An independent, nonprofit research institute based in Seattle, Fred Hutch houses the nation's first cancer prevention research program, as well as the clinical coordinating center of the Women's Health Initiative and the international headquarters of the HIV Vaccine Trials Network. **Careers Start Here**

A Computational Biologist/Bioinformatics Analyst position in the laboratory of Dr. Gavin Ha and the Computational Biology Program is available immediately. We are seeking a highly motivated individual who is interested in studying the genetics and epigenetics of cancer using computational approaches. Candidates who are excited about large/complex 'omics' data analysis and cancer research are encouraged to apply.

Responsibilities

The Ha lab is establishing a research program that uses new DNA sequencing technologies to study cancer genomes. The lab is also focused on research involving liquid biopsies, such as cell-free DNA, and developing new computational approaches to leverage these data for genome discovery and cancer burden monitoring. The research interests/projects in the Ha lab include:

- Analysis of cancer genomes to understand tumor progression/evolution, metastatic disease, non-coding genome alterations, copy number alterations, genome rearrangements and 3D structure, mutational signatures
- Development of novel computational algorithms for long-range (linked-reads or long-reads) whole genome sequencing of tumors
- Development and analysis of sensitive approaches to detect tumor-derived DNA in cell-free DNA from patient blood plasma
- Analysis of tumor microenvironment and heterogeneity using single-cell RNA sequencing
- The lab works with collaborators to validate results using functional experiments
- For examples of recent studies, see PMID:29909985, PMID:29109393, PMID:25060187

Candidates with strong interest and/or expertise in any of these research areas are highly encouraged to apply

- Cancer genomics, liquid biopsies, tumor evolution/heterogeneity, single-cell transcriptomics
- Application of statistical modeling, algorithm design, artificial intelligence to study cancer and genetics
- Analysis of large, complex genome, epigenome or transcriptome data

Qualifications

Applicants must have at least a Bachelor's degree in one of these disciplines:

- Computational biology, bioinformatics, computer science, data science, statistics, biostatistics, biomedical engineering, computer/electrical engineering, physics, or other related fields

Applicants should have some of the following skills and experience:

- Work well in team environments; strong communication skills; detail-oriented
- Strong programming experience (R, Python, Matlab, Java, C/C++, Perl or other languages for research)
- Experience with high performance computing environments or cloud computing environments is a plus
- Experience with analyzing sequencing data is considered a strong asset
- A background in cancer biology is considered a strong asset.

Submission of a targeted cover letter is strongly recommended.

Our Commitment to Diversity

We are committed to cultivating a workplace in which diverse perspectives and experiences are welcomed and respected. We are proud to be an Equal Opportunity and VEVRAA Employer. We do not discriminate on the basis of race, color, religion, creed, ancestry, national origin, sex, age, disability, marital or veteran status, sexual orientation, gender identity, political ideology, or membership in any other legally protected class. We are an Affirmative Action employer. We encourage individuals with diverse backgrounds to apply and desire priority referrals of protected veterans. If due to a disability you need assistance/and or a reasonable accommodation during the application or recruiting process, please send a request to our Employee Services Center at escmail@fredhutch.org or by calling 206-667-4700.

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