Post-Doctoral Research Fellow, Viral Dynamic Modeling

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.

At Fred Hutch, we believe that the innovation, collaboration, and rigor that result from diversity and inclusion are critical to our mission of eliminating cancer and related diseases. We seek employees who bring different and innovative ways of seeing the world and solving problems. Fred Hutch is in pursuit of becoming an antiracist organization. We are committed to ensuring that all candidates hired share our commitment to diversity, antiracism, and inclusion.

Responsibilities

The Schiffer Group at the Fred Hutchinson Cancer Research Center is seeking to hire a Post-doctoral Fellow to work on mathematical modeling of viral diseases. Particular emphasis will be on SARS Co-V-2 as well as other respiratory viruses.

The successful applicant will work with Dr. Joshua T. Schiffer to develop mathematical models that focus on optimizing treatment of viral infections, and in particular curative strategies for HIV and COVID-19. The candidate will also collaborate with laboratory-based virologists, immunologists, oncologists, and clinical investigators from VIDD, to generate datasets appropriate for model testing and validation. The successful applicant will interact with Fred Hutch based faculty outside of VIDD, plus members of the University of Washington faculty in the Division of Virology and Division of Infectious Diseases.

Qualifications

- PhD degree in statistics/biostatistics, computer science, applied mathematics, biomedical engineering, physics, computational biology, evolutionary biology or other fields with strong quantitative training.
- Strong programming skills in C/C++, Matlab, Monolix/Mlxtran, and/or R and previous experience with differential equation-based models are required.

A statement describing your commitment and contributions toward greater diversity, equity, inclusion, and antiracism in your career or that will be made through your work at Fred Hutch is requested of all finalists.

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