Located in Boston and the surrounding communities, Dana-Farber Cancer Institute brings together world renowned clinicians, innovative researchers and dedicated professionals, allies in the common mission of conquering cancer, HIV/AIDS and related diseases. Combining extremely talented people with the best technologies in a genuinely positive environment, we provide compassionate and comprehensive care to patients of all ages; we conduct research that advances treatment; we educate tomorrow's physician/researchers; we reach out to underserved members of our community; and we work with amazing partners, including other Harvard Medical School-affiliated hospitals.

**Job Requirements**

The Associate Director for Scientific Operations will work closely with the Director to fulfill the scientific mission of the Center for Cancer Evolution (CCE). The principal mission of the CCE is to develop and validate mathematical modeling strategies of tumor evolution and treatment response, and eventually utilize these strategies to identify best therapeutic intervention. We will investigate the treatment response of cancer cells and their microenvironment, develop novel mathematical frameworks describing the evolutionary dynamics of tumor progression and treatment response that are parameterized using the experimental systems, and predict and validate optimum intervention strategies that will ultimately be implemented as prospective clinical trials. The Associate Director for Scientific Operations will have responsibility for furthering the daily research operations of the Center. In addition, the Associate Director for Scientific Operations will have oversight responsibilities for the CCE's scientific mission and will, jointly with Center Leadership, supervise the Postdoctoral Fellows. More specifically, he/she will have the following responsibilities:

- Support the Director in setting the scientific direction and the operational priorities for the Center.
- Create mathematical models and statistical/bioinformatic analysis platforms in a variety of contexts such as evolutionary dynamics of cancer and cancer progression, treatment responses and treatment optimization and implement them in the scope of the Center's research.
- Direct and facilitate collaborative projects
- Assist in grant and manuscript preparation and develop fundraising material for the Center.
- Prepare reports and give presentations as needed.
- Co-supervise postdoctoral fellows
- Attend at least one conference/meeting per year related to the activities of the Center.

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The Associate Director will be designated a Senior Research Scientist and as such must fulfill the Dana-Farber requirements for this title. In addition, the Associate Director must fulfill the following requirements:

- PhD level education with proven work experience in his/her respective field of endeavor.
• Background in applied or pure mathematics, statistics, bioinformatics or computational biology; an interest in cancer biology and a work experience in probability theory and statistics are necessary.

• Ability to work with senior level academic track scientists both within and outside his/her lab.

• Ability to manage research databases.

• Extensive knowledge of mathematical modeling and evolutionary theory as related to cancer, biostatistics methods and bioinformatics software, and the ability to create novel analysis platforms.

• Strong management and supervisory skills.

• Excellent computer, analytical and writing skills.

Dana-Farber Cancer Institute is an equal opportunity employer and affirms the right of every qualified applicant to receive consideration for employment without regard to race, color, religion, sex, gender identity or expression, national origin, sexual orientation, genetic information, disability, age, ancestry, military service, protected veteran status, or other groups as protected by law.

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