Bioinformaticist II

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Harvard University
in Boston, MA

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Type: Full-Time
Salary: $76,400 - $130,000 per year
Posted: 7 days ago
Category: Laboratory and Research
Military

HARVARD UNIVERSITY

Company Description

By working at Harvard University, you join a vibrant community that advances Harvard's world-changing mission in meaningful ways, inspires innovation and collaboration, and builds skills and expertise. We are dedicated to creating a diverse and welcoming environment where everyone can thrive.

Why join Harvard Medical School?

Harvard Medical School's mission is to nurture a diverse, inclusive community dedicated to alleviating suffering and improving health and well-being for all through excellence in teaching and learning, discovery and scholarship, and service and leadership.

You'll be at the heart of biomedical discovery, education, and innovation, working alongside world-renowned faculty and a community dedicated to improving human health. This is more than a job - it's an opportunity to shape the future of medicine.

Job Description

The Brugge Laboratory at Harvard Medical School is seeking a highly motivated Bioinformaticist II to join a dynamic team of researchers working on understanding ovarian cancer initiation and drug resistance. With our collaborators, we have access to valuable patient samples derived from matched pre- and post-chemotherapy-treated patients. The Bioinformaticist II will collaborate with investigators in the Brugge lab and partner labs to perform bioinformatics analyses, statistical modeling, and hypothesis generation from large-scale, multi-modal patient-derived datasets.

This position will work with other scientists to define different states of epithelial/tumor and stromal cells in ovarian tumor samples before and after chemotherapy. The lab uses advanced single cell approaches to profile the genetic, epigenetic and transcriptomic landscape to identify strategies to prevent therapy resistance. They integrate this information with high-throughput immunofluorescence microscopy to locate cells of interest in situ. This position will play a key scientific role leveraging computational strategies and bioinformatics tools and analysis methods expertise expertise to identify the critical programs involved in ovarian cancer therapy resistance.

In this role, the person will have a path to grow and thrive through unique opportunities to examine patient-matched ovarian cancer datasets. The person would be able to pursue innovative approaches to address fundamental biological questions of tumor biology while advancing their knowledge of cancer biology alongside some of the brightest minds in cancer research.

Analysis scenarios will involve applying cutting-edge bioinformatics, statistics, ML/AI, and data analysis methods integrating clinical and multi-modal data sets from donor tissues and from oncology clinical studies. Data types include scRNAseq, scATACseq, spatial transcriptomics, among others. This role offers a path for scientific growth and innovation, including opportunities to publish in high-impact journals and contribute to the development of preventive and therapeutic strategies for ovarian cancer. The position also includes flexibility for partial remote work.

Specific duties and responsibilities include:

- Develop and apply computational methods to integrate diverse 'omics' datasets.

- Analyze incoming data using established analytical pipelines and assess or develop new methods as needed.
- Collaborate with bench scientists to design experiments and analytical strategies.
- Interpret and summarize findings for internal and external collaborators.
- Prepare figures and presentation materials for manuscripts, grants, and seminars.
- Lead in-depth analyses of genes and molecular programs relevant to ovarian cancer initiation and drug resistance.
- Provide expertise in specialized bioinformatics tools and statistical methods.
- Document all work thoroughly, adhering to NIH data management requirements as needed.
- Generate manuscript-level reports of final analyses and results.
- Visualize and present data using advanced techniques for clear communication.
- Collaborate with a team including another bioinformaticist and two computational imaging experts.
- Contribute to writing and editing computational biology sections of manuscripts and grants.

Qualifications

Basic Qualifications:

Masters degree in biological sciences required, 5+ years experience in the area of bioinformatics.

Additional Qualifications and Skills:

- **PHD STRONGLY PREFERRED.**
- High-level proficiency in R and Python and other programming languages.
- Expertise in high-performance computing environments.
- Experience analyzing single cell -omics data.
- Strong problem solving, biological, statistical and computational capabilities.
- Excellent collaboration and communication skills, especially in written/verbal presentation and data visualization.
- Familiarity with modern AI/ML methods (i.e. Graphical Neural Networks (GNNs) or Transformers) and cloud computing is a plus.
- Must be independent, rigorous and think creatively.

Additional Information

- **Term:** This is a one-year term position from the date of hire, with the possibility of extension, contingent upon work performance and continued funding to support the position.
- **Standard Hours/Schedule:** 35 hrs. per week | Monday - Friday | 9:00 am - 5:00 pm
- **Visa Sponsorship Information:** Harvard University is unable to provide visa sponsorship for this position.

- **Pre-Employment Screening:** Identity, Education
- **Other Information:** Please note that we are currently conducting a majority of interviews and onboarding remotely and virtually. We appreciate your understanding.
- **Staying Informed About Your Application**: Due to the high volume of applications, we may not always be able to reach out right away, but you can track your status anytime through the **Careers@Harvard** portal.

#LI-DK1

Work Format Details

This position has been determined by school or unit leaders that some of the duties and responsibilities can be effectively performed at a non-Harvard location. The work schedule and location will be set by the department at its discretion and based upon operational needs. When not working at a Harvard or Harvard-designated location, employees in hybrid positions must work in a Harvard registered state in compliance with the University's Policy on Employment Outside of Massachusetts. Additional details will be discussed during the interview process. Certain visa types and funding sources may limit work location. Individuals must meet work location sponsorship requirements prior to employment.

Salary Grade and Ranges

This position is salary grade level 057. Please visit Harvard's Salary Ranges to view the corresponding salary range and related information.

Benefits

Harvard offers a comprehensive benefits package that is designed to support a healthy work-life balance and your physical, mental and financial wellbeing. Because here, you are what matters. Our benefits include, but are not limited to:

- Generous paid time off including parental leave
- Medical, dental, and vision health insurance coverage starting on day one
- Retirement plans with university contributions
- Wellbeing and mental health resources
- Support for families and caregivers
- Professional development opportunities including tuition assistance and reimbursement
- Commuter benefits, discounts and campus perks

Learn more about these and additional benefits on our Benefits & Wellbeing Page.

EEO/Non-Discrimination Commitment Statement

Harvard University is committed to equal opportunity and non-discrimination. We seek talent from all parts of society and the world, and we strive to ensure everyone at Harvard thrives. Our differences help our community advance Harvard's academic purposes.

Harvard has an equal employment opportunity policy that outlines our commitment to prohibiting discrimination on the basis of race, ethnicity, color, national origin, sex, sexual orientation, gender identity, veteran status, religion, disability, or any other characteristic protected by law or identified in the university's non-discrimination policy. Harvard's equal employment opportunity policy and non-discrimination policy help all community members participate fully in work and campus life free from harassment and discrimination.
We are an equal opportunity employer and all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, disability status, protected veteran status, or any other characteristic protected by law.

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