Postdoctoral Position in Cancer Computational Modeling
Johns Hopkins University

Job Title	Postdoctoral Position in Cancer Computational Modeling
Department	Biomedical Engineering and Oncology
Institution	Johns Hopkins University Baltimore, Maryland
Date Posted	Mar. 24, 2025
Application Deadline	Open until filled
Position Start Date	Available immediately
Job Categories	Post-Doc
Academic Field(s)	Vascular Biology Physiology & Biophysics Pharmacology & Toxicology Oncology & Hematology Immunology & Infectious Diseases Biomedical Engineering/Biomedical Sciences Biochemistry & Cellular Biology
Job Website	https://popellab.johnshopkins.edu/postitions/
Apply By Email	apopel@jhu.edu

Job Description

Seeking a motivated Postdoctoral Researcher in Dr. Popel's laboratory in the Departments of Biomedical Engineering and Oncology, The Johns Hopkins School of Medicine. The successful candidate will join a team that combines computational, experimental and clinical researchers using computational systems biology and quantitative systems pharmacology (QSP) to discover mechanisms

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of immunotherapies and conduct virtual clinical trials. Also strong interactions with pharmaceutical companies. Specific skills include strong computational modeling from signaling pathways to tumor scales; knowledge of immunology and machine learning is a plus. Strong computer programming skills.

Applicant must have a doctoral degree in biomedical engineering, chemical engineering, applied mathematics, computer science, pharmaceutical science or equivalent with a demonstrated record of innovative scientific accomplishments as evidenced by first-author papers published or accepted in premier journals. Qualified candidates must be able to work independently, demonstrate outstanding communication skills, have a strong commitment to science, and work well within a group.

Examples of recent publications: Zhang S, et al. Integration of Clinical Trial Spatial Multiomics Analysis and Virtual Clinical Trials Enables Immunotherapy Response Prediction and Biomarker Discovery. Cancer Res. 2024 84(16):2734-2748. doi: 10.1158/0008-5472.CAN-24-0943; Arulraj T, et al. Virtual patient analysis identifies strategies to improve the performance of predictive biomarkers for PD-1 blockade. Proc Natl Acad Sci U S A. 2024;121(45):e2410911121. doi: 10.1073/pnas.2410911121

EEO/AA Policy

Johns Hopkins University is an Equal Opportunity Employer. All individuals are encouraged to apply.

Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

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