

Postdoctoral position in Cancer Computational Modeling Johns Hopkins University

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Posted Jun. 24, 2025, set to expire Oct. 24, 2025

Job Title	Postdoctoral position in Cancer Computational Modeling
Department	Biomedical Engineering and Oncology
Institution	Johns Hopkins University Baltimore, Maryland
Date Posted	Jun. 24, 2025
Application Deadline	Open until filled
Position Start Date	Available immediately
Job Categories	Post-Doc
Academic Field(s)	Bioengineering (all Bio-related fields)
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 of immunotherapies and conduct virtual clinical trials. Also strong interactions with pharmaceutical companies. 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.

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.

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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.

How to apply: Email CV and names of three references to: Dr. A.S. Popel, Dept. of Biomedical Engineering, School of Medicine, Johns Hopkins University, Baltimore, MD 21205. E-mail apopel@jhu.edu

EEO/AA Policy

Johns Hopkins University is an Equal Opportunity Employer.

Contact Information

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

Contact Dr Aleksander S. Popel
Biomedical Engineering and Oncology
Johns Hopkins University
Baltimore, MD 21205

Contact E-mail apopel@jhu.edu