



# JEWELL RESEARCH LAB

FISCHELL DEPARTMENT OF BIOENGINEERING  
UNIVERSITY OF MARYLAND - COLLEGE PARK

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## NAMED POSTDOCTORAL FELLOWSHIP AT THE INTERFACE OF IMMUNE ENGINEERING AND BIOINFORMATICS

The Jewell Research Lab and The Bromberg Research Lab at the University of Maryland (UMD) are seeking a candidate to be named the Robert. E. Fischell Young Investigator. This recipient of this Postdoctoral Fellowship will have a critical leadership role in the lab's joint immune engineering projects. The central goal is to understand the interactions between biomaterials and immune cells, and exploit these interactions for therapeutic vaccines targeting cancer, autoimmunity, and transplantation. The team's projects are supported by 9 R01/R01-equivalent awards from the NIH and US Dept. of Veterans Affairs (VA), as well as grants from foundations and biotech companies. These efforts draw on a vibrant group of postdocs, students, and support staff, integrating tools from immunology, engineering, chemistry, and medicine. This is a joint position based at the University of Maryland College Park Campus. For more information visit [jewell.umd.edu](http://jewell.umd.edu).

The Jewell Lab consists of over 2000 ft<sup>2</sup> of dedicated space in the state-of-the-art [A. James Clark Hall](#). Some of the equipment in the lab includes 10x Genomics single cell RNAseq platforms, flow cytometry, LED fluorescence dissection microscope, fully automated video fluorescence microscope with cell incubation, laser diffraction particle analyzer, and microfabrication instruments. The Jewell Lab contains an ABSL-2 cell culture facility, as well as multiple rooms in the newest campus vivarium, in Clark Hall in the state-of-art Clark Hall. These resources are in addition to more than 24 core instruments housed in the [BioWorkshop](#) core instrument facility, the translational instrumentation suite in the Clark hall vivarium, and many other campus facilities. Research in the Jewell lab is enhanced by formal connections to the Greenebaum Cancer Center, US Dept. of VA, and University of Maryland Medical School. Additionally, UMD is located near top government research and funding agencies including NIH, FDA, DoD, NSF. This proximity provides unique opportunities for research, funding, and networking.



This Fischell Young Investigator Fellowship comes with competitive benefits, including an enhanced stipend, health insurance, retirement package, and travel opportunities. The Fellow will also be eligible for renewable, annual contracts with the expectation of completing a total of 3-4 years of training. The labs are committed to career development through individual development plans, workshops, social events, and a commitment to Diversity, Equity, and Inclusivity (DEI). Flexibility to pursue research in personal areas of interest, apply for transition grants and fellowships, develop independent research thrusts, and build scientific management expertise will be encouraged.

### **Qualifications and Application Procedure**

The ideal candidate will have experience with in immune engineering and bioinformatics, but opportunities to gain new skills in either area will be offered. Preference will be given to candidates with experience in one or more of the following areas: 1) bioinformatics (including scRNAseq, TCR sequencing, data analysis), 2) translational research in rodents, 3) mouse models of autoimmunity/transplantation/cancer, 4) biomaterials synthesis and characterization, 5) flow cytometry, 6) isolation/culture of primary immune cells, 7) histology/immunofluorescence.

Interested candidates should assemble a i) cover letter, ii) CV, iii) list of references, and iv) 2 first-author manuscripts. The cover letter should describe the candidate's research experience, interest in the fellowships and labs, career goals/expectations for the position, and preferred start date. E-mail the application as a single PDF file to [cmjewell@umd.edu](mailto:cmjewell@umd.edu).

**Additional information about employment at the University of Maryland**

The University of Maryland is an equal opportunity/affirmative action employer, complies with all applicable federal and state laws and regulations regarding nondiscrimination and affirmative action; all qualified applicants will receive consideration for employment. The University is committed to a policy of equal opportunity for all persons and does not discriminate on the basis of race, color, religion, sex, national origin, physical or mental disability, protected veteran status, age, gender identity or expression, sexual orientation, creed, marital status, political affiliation, personal appearance, or on the basis of rights secured by the First Amendment, in all aspects of employment, educational programs and activities, and admissions.