



**A. JAMES CLARK**  
SCHOOL OF ENGINEERING

**Fischell Department of Bioengineering**  
**A. James Clark Hall**  
**8728 Paint Branch Drive**  
**University of Maryland**  
**College Park, MD 20742**

## **RESEARCH TECHNICIAN POSITION**

The Maisel and Mueller Labs in the Fischell Department of Bioengineering at the University of Maryland, College Park have a joint opening for a full-time research technician to support both labs' operations.

The Maisel Lab's research integrates materials science, immunology, mucosal barrier physiology, and drug delivery to achieve our long-term research goal to design nanoparticles and in vitro model systems to take advantage of and study the interface between biological barriers and biomaterials. We are particularly interested in understanding how the lymphatic system responds to physiological and pathological cues at mucosal surfaces, and how we can take advantage of the natural transport functions of the lymphatics to deliver therapeutics to modulate the immune response. For more information, please visit: <http://maisellab.umd.edu/>

The Mueller lab is focused on developing affordable, accessible diagnostic and therapeutic technologies to improve the management of cancers in low and middle-income countries (LMICs). This work is motivated by the fact that over 70% of cancer-related deaths occur in LMICs, primarily due to a lack of access to basic cancer diagnosis and treatment services. We use engineering design methods, rapid prototyping and fabrication, various types of bioimaging, chemical ablation, bench testing, and tissue and animal models to develop biomedical technologies for improving cancer management. For more information, please visit: <https://mueller.umd.edu/>

### **Qualifications and Application Procedure**

Duties for this position will include a range of activities to enable Maisel and Mueller Lab research, including supporting: i) cell culture (mammalian), ii) rodent handling + manipulation (disease induction, monitoring, treatment application, tissue/cell harvest), iii) tissue processing (histology and immunohistochemistry), iv) tissue and cell imaging (microscopy), v) therapeutic formulation design/synthesis, vi) research data analysis, and vii) lab operations.

Candidates should have a BS in bioengineering, biology, animal sciences, or a related field. Candidates with MS degrees are also encouraged to apply. The ideal candidate will have past research experience with one or more of the following areas: i) mammalian cell culture/sterile techniques, ii) small animal research, iii) cell/tissue isolation, iv) histology and microscopy, and v) be willing to assist with large animal research. However, training in all techniques will be available for strong candidates and for continuing education. The work schedule for this full-time position is Sunday through Thursday.

UMD complies with all federal and state regulations regarding nondiscrimination and affirmative action; all applicants will receive full consideration (<https://uhr.umd.edu/eeo/>). Compensation will be based on experience and will include retirement and a competitive UMD benefits package.

The University of Maryland has made the safety of our students, faculty and staff, and our surrounding communities a top priority. As part of that commitment, the University System of Maryland (USM) recently announced that students, faculty, and staff on USM campuses this fall, including UMD, are required to be vaccinated against COVID. As a prospective and/or a new employee at UMD, you will be required to comply with the University's vaccination protocol. Proof of full vaccination will be required before the start of employment in order to work at any University of Maryland location. Prospective or new employees may seek a medical or religious exemption to the vaccination requirement at [return.umd.edu](http://return.umd.edu) and must have an approved exemption prior to the start of their employment.

Interested candidates should assemble an application consisting of: i) cover letter, ii) CV, and iii) list of 3 references. The cover letter should describe the candidate's experience, interest and expectations for the position, general salary expectations, and preferred start date. E-mail the application as a single PDF file to [bioe-search@umd.edu](mailto:bioe-search@umd.edu) with "Lab Technician Candidate" in the subject line.

**Key dates**

Candidate review: September - October 2021

Interviews: November 2021

Target start date: December 2021