



STROKA RESEARCH LAB
Fischell Department of Bioengineering
University of Maryland – College Park

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POSTDOCTORAL POSITION IN CELL ENGINEERING AND MECHANOBIOLOGY

The Stroka Research Lab in the Fischell Department of Bioengineering at the University of Maryland (UMD), College Park, has an opening for a postdoctoral researcher to work on a project related to the mechanobiology of induced pluripotent stem cell-derived brain endothelial cells.

Compensation for this position will be at or above NIH postdoctoral guidelines and will include a competitive benefits package offered by UMD. Postdoctoral researchers will receive a renewable, annual contract, with the expectation of completing at least 2 years of training.

The overall research goal of the Stroka Lab is to integrate engineered cellular microenvironments, cell and molecular biology, live cell imaging, and quantitative analysis, in order to (a) create relevant *in vitro* models of multi-scale biological systems (from subcellular signaling and dynamics to single cell behavior to multicellular complexes) and (b) subsequently use the model systems to examine the mechanobiology of underlying (patho)physiological phenomena. The postdoctoral researcher would join an energetic group of graduate and undergraduate students, integrating tools from stem cell engineering, microfabrication, cell mechanobiology, and computer programming.

In 2018, the Stroka Lab moved into the brand-new A. James Clark Hall and has access to state-of-the-art equipment and facilities in this lab space and neighboring core facilities. The lab is currently supported by grants from the Maryland Stem Cell Research Fund, Burroughs Wellcome Fund, National Institutes of Health, National Science Foundation, and University of Maryland. The lab also has connections with the University of Maryland School of Medicine's Center for Stem Cell Biology and Regenerative Medicine, Greenebaume Comprehensive Cancer Center, and UMD Biophysics Program. The postdoctoral researcher would also benefit from the Fischell Department of Bioengineering's new Postdoctoral Training Program, which includes a BIOE postdoc group, Pathway-to-Faculty program, award incentives, proposal writing workshops, and initiatives tailored for specific career paths (e.g., academia, industry, government). See <https://bioe.umd.edu/research-support> for more information.

Qualifications and Application Procedure

Preference will be given to candidates with experience in three or more of the following areas: (1) stem cell engineering, (2) induced pluripotent stem cell and/or endothelial cell culture, (3) mechanobiology, (4) microfabrication, and (5) immunofluorescence.

Interested candidates should assemble a (i) cover letter, (ii) CV, (iii) list of references, (iv) two first-author manuscripts that have been published or accepted for publication. The cover letter should describe the candidate's research experience, proposed project interests, career goals, expectations for the position, and preferred start date. Email the application as a single PDF to kstroka@umd.edu. Applications will be accepted until the position is filled.