**Postdoc Announcement**

The newly created Center for Inflammation Science and Systems Medicine (CISSM) at the University of Florida-Scripps Institute for Biomedical Innovation & Technology, is seeking an outstanding applicant for a postdoctoral position to work in multidisciplinary projects related to lung biology and disease. The position will focus on the biophysical and biomechanical mechanisms underpinning vascular integrity and endothelial cell barrier function. The successful candidate will use AFM and optical microscopy to study the kinetic and mechanical responses of human endothelial cell variants stimulated with barrier-altering biochemical agents. The candidate will work as an integral member of a group with expertise in biophysics, cell biology, biochemistry, animal models, and genetics and proteomics of lung disease. Applications received by December 31st will receive full consideration. Contact information: ftarce@arizona.edu.

Further information: https://garcialab.uahs.arizona.edu/ and

https://bme.engineering.arizona.edu/faculty-staff/faculty/fernando-teran-arce

**ESSENTIAL SKILLS, KNOWLEDGE, AND ABILITIES**

- PhD in Physics, Chemistry, Life Sciences, or related field.

- Experience performing mechanical measurements using AFM and data analysis.

- Experience or ability to learn cell culture methods.

- Experience programming using MatLab, Python, or another programming language.

- Experience writing publications and publication record in refereed journals.

- Ability to work independently with minimal guidance, as well as in a team environment.

- Effective communication and interpersonal skills necessary to work in a collaborative research environment and to document and present research results.

**DESIRED**

- Experience with optical measurements and data analysis.

- Experience with soft lithography, microfabrication, and cleanroom use.

- Familiarity with the biology of inflammation and lung disorders including but not limited to acute lung injury, ARDS, ventilator induced lung injury, pulmonary hypertension , fibrosis.

- Experience writing reports and proposals.

**ESSENTIAL DUTIES**

- Design and conduct research using scanning probe microscopy and a variety of other techniques to study assembly, structure and function of various biological systems.

- Maintain and establish laboratory protocols.

- Present formal and informal overviews of research progress at internal meetings.

- Present research findings at national and international conferences.

- Publish research in peer-reviewed literature.