

RESEARCH TRAINING OPPORTUNITY – UNDERGRADUATE OR PHD LEVEL
Center for Inflammation Science and Systems Medicine (CISSM)
UF Scripps Biomedical Research, Jupiter, FL

The newly established Center for Inflammation Science and Systems Medicine (CISSM) at the University of Florida–Scripps Institute is offering a research training opportunity for a motivated undergraduate or PhD-level student seeking hands-on experience in a high-capacity biomedical research environment.

This position is ideal for students looking to deepen their research skills, gain exposure to cutting-edge tools and methods, and build a strong foundation for graduate school or a future career in biomedical science. Participants will be fully embedded in our multidisciplinary team, contributing to projects that explore the mechanical properties of lung tissue and vascular integrity under inflammatory conditions.

Training will include use of atomic force microscopy (AFM), optical imaging, cell culture, and quantitative data analysis. The experience is designed to provide substantial educational and professional value, and is best suited for students seeking academic credit or career development opportunities in lieu of direct compensation.

Ideal Backgrounds: Physics, Chemistry, Engineering, Life Sciences, Bioengineering, or related fields.

What You'll Gain Experience In:

- Mechanical measurements using AFM
- Optical imaging and particle-tracking methods
- Cell culture techniques
- Data analysis in MATLAB or Python
- Scientific writing and presentations
- Protocol development and lab documentation
- Exposure to lung disease models (e.g., ARDS, fibrosis, pulmonary hypertension)

Nice-to-Have Skills (but not required):

- Microfabrication, lithography, or cleanroom experience
- Prior programming experience
- Familiarity with inflammatory biology or pulmonary disorders
- Previous lab or research experience

Contact: Dr. Fernando Tarce (ftarce@ufl.edu)

More info:

[CISSM Website](#)

[Related research example](#)