

## **Soft Matter Engineering Lab**

### **Manufacturing and Mechanical Behavior of Soft Materials**

#### **Post-Doctoral Position**

**Salary:** To be negotiated

**Location:** University of Florida, Gainesville, FL

#### **Role and Responsibilities**

The qualified applicant will join the Soft Matter Engineering Labs within the Department of Mechanical and Aerospace Engineering. The applicant should be highly motivated and self-driven. He/she will have the opportunity to join an interdisciplinary and highly collaborative research team and to perform cutting edge research in the manufacturing and mechanics of hard- and soft- matter from polymers to ceramics in the newly created state-of-the-art Soft Matter Engineering Lab ([softmatter.eng.ufl.edu](http://softmatter.eng.ufl.edu)). It is expected that the applicant will have sufficient prior experience in nanoindentation and/or scanning probe microscopy. The applicant will coordinate lab activities including running of instruments, maintaining the lab and equipment, and training of users, students, and faculty. The applicant will have the opportunity to be involved on funded research proposals and is encouraged to collaboratively and individually publish in leading scholarly journals.

Experience in any of the following areas is desirable: additive manufacturing, mechanical property evaluation of hard materials, rheology and related soft material characterization, scratch testing for evaluation of coatings, dynamic mechanical analysis, mapping modulus as well as hardness, evaluation of materials in a fluid environment, elevated temperature testing, in-situ electron microscopy nanoindentation/experiments, scanning probe microscopy.

#### **Qualifications**

- Applicants should hold a PhD or Masters (with relevant experience) in mechanical engineering, material science, physics or related area with an excellent academic record and practical experience in manufacturing and/or mechanics of materials research.
- Willingness to learn new areas of research and work in a multi-disciplinary team
- Strong interpersonal skills desired
- Excellent written and verbal communication skills

Qualified applicants should send their CV and cover letter to Dr. Curtis Taylor ([curtis.taylor@ufl.edu](mailto:curtis.taylor@ufl.edu)).