



## **HELP WANTED: NC STATE NANOTECH STARTUP LOOKING FOR MECHANICAL ENGINEER**

### **Opportunity**

A creative and self-driven Mechanical Engineering (or similar). Desirable skills include:

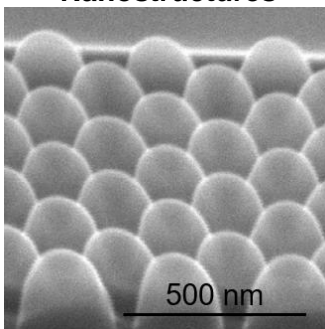
- Design of fixtures and tooling
- Experienced 3D CAD user
- Exposure to finite element modeling and analysis (FEM/FEA)
- Competence with a variety of hand and power tools (vertical mill, hand drills)
- Precision machining, CNC mill/lathe
- Vibrations and controls
- Perform measurements with calipers, micrometers, etc.
- Familiarity with force/displacement sensors and data acquisition
- Lab management
- Skilled communicator in technical writing and speech
- MATLAB, LabVIEW, and data analysis

This position will likely start as an internship and put you among the first employees of a 3-person startup funded by the National Science Foundation SBIR Program. This job will involve fixture and machine design, equipment sourcing, curation of CAD models, FEA, programming and data analysis, and general fabrication tasks on a one-of-a-kind pilot line. It will also include a wide range of non-technical, including business development, customer interaction, and proposal writing. Compensation will initially be hourly, then progress to include a mixture of cash and equity upon full-time hiring. No benefits or relocation assistance will be available. No recruiters please.

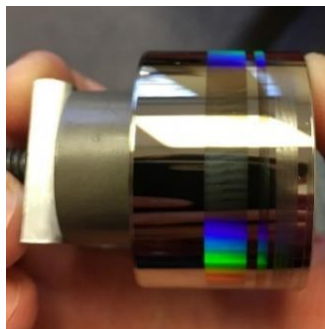
### **Company Overview**

Smart Material Solutions, Inc. (SMS) is a small NC State startup in Raleigh, NC that is developing an advanced nanomanufacturing process called *nanocoining*. The patented process can seamlessly nanopattern drum molds for roll-to-roll manufacturing hundreds of times faster than competing technologies like electron-beam lithography. This enables nanopatterning that was previously feasible for only small, academic experiments to be applied on the industrial scale. Nanocoining opens the door for nanostructured surfaces with unique optical and wetting properties to be applied to a variety of commercial products including OLEDs, biosensors, wire-grid polarizers, solar panels, and windows. Over the next year, the company will consist of a small team working to develop the nanocoining technology and raise funding. Visit [www.smartmaterialsolutions.com](http://www.smartmaterialsolutions.com) for more information.

**Nanostructures**



**Nanostructured Drum Mold**



**Anti-Reflective Film**

