

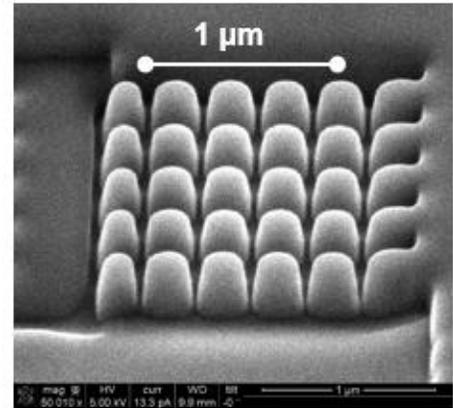


HELP WANTED: NC STATE NANOTECH STARTUP LOOKING FOR MECHANICAL ENGINEER

Opportunity

A BS or MS graduate in Mechanical Engineering or similar field. Desirable skills:

- Mechanical Design
- CAD/FEA
- Machining
- CNC Mill/Lathe
- Vibrations and Controls
- Data Acquisition
- Proposal Writing
- Software: MATLAB, LabVIEW



This position will likely start as an internship and put you among the first employees of a pre-revenue startup funded by the National Science Foundation SBIR Program. This job will involve fixture and machine design, equipment sourcing, curation of CAD models, FEA, and fabrication. As such, it will include a wide range of tasks beyond just the 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.

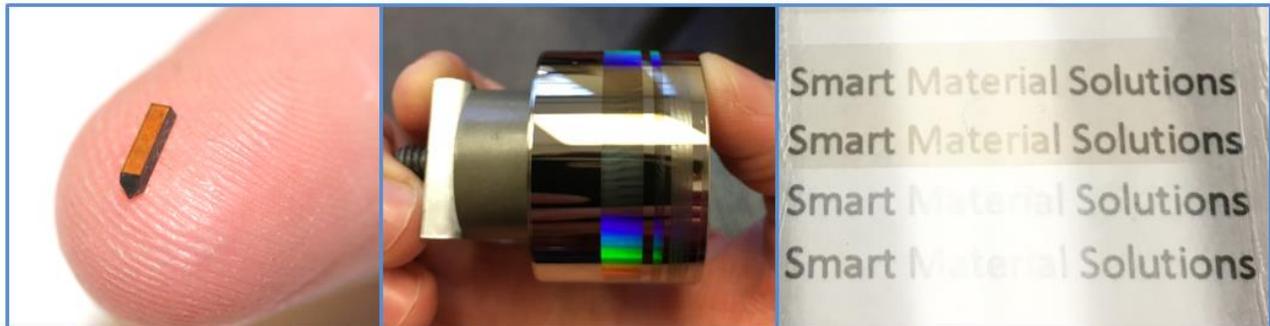
Technology

Nanocoating is a novel manufacturing process that can rapidly cover a metal surface with features that are smaller than the wavelength of visible light (< 300 nm). The features can give a surface anti-reflective and enhanced/non-wetting or self-cleaning properties. This has application in a plethora products, including solar cell coatings, OLED displays/lighting, food packaging, anti-glare automotive or residential window films, and many more. The process can replicate the nano-features onto the surface of a cylindrical drum mold for roll-to-roll processes that facilitate massive scale-up into polymer films or glass coatings.

Diamond Die:

Nickel-Plated Mold:

Anti-Reflective Film:



Company

Smart Material Solutions, Inc. (SMS) is an early stage NCSU startup that is funded by the National Science Foundation. Over the next year, the company will consist of a small team of 3-4 people working to develop the Nanocoating technology and raise funding. Visit www.smartmaterialsolutions.com for more information.