Postdoctoral Position

Postdoctoral Position in Atomic Layer Deposition of 2D Materials

A postdoctoral research position is available immediately in the laboratory of Professor Elton Graugnard in the Micron School of Materials Science and Engineering at Boise State University (http://nano.boisestate.edu/laboratories/atomic-films-laboratory/). The position is focused on developing atomic layer deposition (ALD) and nanofabrication processes for 2D transition metal dichalcogenides (TMDCs). Particular emphasis will be on the nucleation of TMDC precursors and co-reactants on engineered surfaces using experimental and computational techniques. Fundamental reaction mechanisms will be studied in detail using in situ and ex situ characterization techniques, including quartz crystal microbalance, quadrupole mass spectroscopy, Raman spectroscopy, spectroscopic ellipsometry, atomic force microscopy, and electron microscopy.

Qualified candidates will have
- PhD in Materials science, chemistry, chemical engineering, physics, or related field.
- Experience with atomic layer deposition and process development
- Experience with thin film and materials characterization
- Ability to work independently as well as with a team
- Demonstrated strong written and verbal communication skills

Interested candidates should submit a CV including publications and references to eltongraugnard@boisestate.edu.