

September 30, 2014

SUBJ: POSTDOC POSITION AVAILABLE AT TEMPLE UNIVERSITY

A postdoctoral position is open in the laboratory of Prof. Maria Iavarone at the Department of Physics, Temple University, Philadelphia.

The candidate will carry out experimental research on the *Energy Frontier Research Center* entitled “Center for the Computational Design of Functional Layered Materials”. The main objective of the Center is to employ computation and theory to design modified layered materials with desired functionalities, to grow and experimentally characterize them, and to test their efficacy for clean-energy applications.

The Center has 10 Temple PI including Prof. Iavarone and external collaborators will include Rice University, Duke University, Princeton University, Drexel University, Northeastern University, North Carolina State University, the University of Pennsylvania and Brookhaven National Laboratory.

In Prof. Iavarone’s group low temperature scanning probe microscopy and spectroscopy will be employed to characterize the local electronic density of states of these materials. The main tool of the research is a low temperature scanning tunneling microscopy (STM) in ultra-high-vacuum equipped with in-situ characterization and fabrication tools. The prospective postdoctoral scientist will also be involved in design and fabrication of samples in collaboration with other PIs.

The successful candidate will interact with several graduate and undergraduate students as well as senior visitors and theorists. The position will require working in a collaborative environment using complementary fabrication and characterization techniques that are widely available between Temple University and our external collaborators. Good English communication skills are essential and the ability and willingness to work with colleagues from different disciplines are important. Presentations at national meetings and publication of scientific results in peer-reviewed journals are expected.

Prospective candidates should have experience with STM and be familiar with cryogenic techniques, magneto-transport measurements and ultrahigh vacuum (UHV), experience in basic thin film fabrication techniques is desired, but not required. A Ph.D. in condensed matter physics or a related field is required. The position is available immediately for a duration of one year, annually renewable for up to three additional years upon mutual agreement. The position includes a competitive salary and benefits.

Interested candidates should apply by sending a CV, list of publications and the names and contact information of 3 references to iavarone@temple.edu. Review of applications will begin immediately and the position will remain open until filled.