Post-doctoral Researcher Positions at University of Southern California

The Mork Family Department of Chemical Engineering and Materials Science within the USC Viterbi School of Engineering at University of Southern California invites applications for two post-doctoral researchers under the direction of Prof. Jayakanth Ravichandran (http://alchemy.usc.edu). Successful candidate will participate in (a) a multi-university project supported by Army Research Office studying novel polar structures in chalcogenide materials, or (b) multi-investigator project focused on studying chalcogenides for catalytic applications supported by the Ershaghi Center for Energy Transition (http://ecet.usc.edu).

The candidates should have a PhD degree (or completing in the near future) in Materials Science, Physics, Chemistry or related Engineering disciplines. Ideal applicants will exhibit intellectual independence, motivation and drive, and willingness to mentor junior group members. Candidates with complementary expertise to synthesis, characterization and physical properties of ionic materials such as oxides and chalcogenides with two or more skill sets noted below are particularly encouraged to apply:

a) Single crystal growth
b) Epitaxial thin film growth (Pulsed laser deposition, Molecular beam epitaxy)
c) Powder or nanocrystalline materials synthesis
d) Advanced X-ray, electron and/or neutron-based characterization
e) Electron transport and microfabrication
f) Optical spectroscopy

The duration of the position is one year and may be renewable based on performance and availability of funding. The position is available immediately and the start date can be negotiated.

Individuals interested in applying should submit by email (a) CV, (b) a brief research statement and career objectives (1/2 page), and (c) a list of three references, to Prof. Jayakanth Ravichandran, j.ravichandran@usc.edu.