Durham, February 21, 2013

POSTDOCTORAL POSITIONS AT DUKE UNIVERSITY

To Whom It May Concern:

The group of Professor Stefano Curtarolo at Duke University Department of Mechanical Engineering and Materials Science and at the Duke Center for Materials Genomics has several fully-funded postdoctoral positions available in ab initio electronic structure methods, materials informatics, and computational materials design. The Curtarolo’s group is at the forefront of the development of automatic electronic structure computational methods (AFLOW) for applications in materials development: energy conversion, magnetic-spintronics systems, topological insulators, and others (aflowlib.org). Research topics are described in the “Outlook” section of [Nature Mater. 12, 191 (2013), 10.1038/nmat3568], within the open-domain-sharing movement [10.1038/nmat3594]. Logistical information about our research group can be found at http://materials.duke.edu.

Background. We are looking for people with backgrounds in:
   1. statistical thermodynamics
   2. electronic/magnetic/vibrational structure
   3. computational materials electrochemistry
   4. materials microstructures and interfaces
   5. applied statistics/math and computer science

Selection. In addition to the specific background, he successful candidates must have solid and practical expertise in thermodynamics of materials, solid-state theory, and transport processes (mechanical and electronic). He/she should be highly skilled with VASP and/or Quantum Espresso, C++, and UNIX (Linux). Successful candidates must have a PhD in materials science, physics, chemistry, mathematics, statistics, or related fields. Potential candidates should send their curriculum vitae and name of three references to stefano@duke.edu (only PDF material will be considered, no letters are required at this stage).

Sincerely yours,

Prof. Stefano Curtarolo
Professor of Materials Science and Physics
Director, Center for Materials Genomics
Duke University

Details of eligibility for benefits, such as insurance, retirement, and vacation/sick leave, may be found at the Office of Postdoctoral Services website, http://www.postdoc.duke.edu/, under policies. Please note that the positions are contingent on continued availability of funding and satisfactory performance. Duke University is an affirmative action, equal opportunity employer: http://www.hr.duke.edu/policies/diversity/eeo.php