

Postdoctoral position at Stanford/UC Davis in quantum simulations

A joint postdoctoral position is available immediately in the area of quantum simulations. The successful candidate will work with the Micro and Nano Mechanics group led by Prof. Wei Cai in the Mechanical Engineering Department at Stanford University (<http://www.stanford.edu/~caiwei>) and the Angstrom group led by Prof. Giulia Galli in the Chemistry Department at University of California, Davis (<http://angstrom.ucdavis.edu>). This position is sponsored by a 5-year US/DOE SciDAC project on quantum simulations of materials. The base of this postdoctoral position will be at Stanford.

The main purpose of this project is to develop efficient computational methods for quantum simulations of condensed matter under magnetic fields. The successful candidate is expected to implement new methods to large-scale quantum simulation codes and to perform massively parallel simulations to investigate the electronic structures of materials under magnetic fields. The electronic and structural property of nano-structures is also an important aspect of this project.

Postdoctoral candidates should have earned a PhD in Physics, Chemistry, Chemical Engineering or Materials Science. A strong computational background in the quantum modeling of materials properties is preferred while some experience with scientific software development and massively parallel computing would be a definite plus. Interested candidates should send their curriculum vitae and a list of references to:

Prof. Wei Cai

and Prof. Giulia Galli

caiwei@stanford.edu

gagalli@ucdavis.edu

Please mark your message on the subject line: application for the postdoctoral position.

This job posting is also on line at <http://www.stanford.edu/~caiwei/JobOpening>