I. Position Information

Working Title

Postdoc - Physics

Position Summary

We invite applications for a postdoctoral researcher position in Condensed Matter Theory in the Physics Department of Virginia Tech. The focus of the position is on Quantum Control and Quantum Computing and related technologies, particularly spin-based implementations. The successful candidate will work on analytical and numerical models and on designs of quantum protocols and quantum gates for solid-state Quantum Computing. The position includes many opportunities for travel both to present in conferences and to collaborate, nationally and internationally. There will be opportunities for collaboration with leading experimentalists in the field.

The successful applicant must hold a Ph.D. in Theoretical Condensed Matter Physics or Quantum Optics. A strong background in Quantum Mechanics is necessary and knowledge of concepts from Quantum Information or Quantum Computing is required.

Required Qualifications

* Background in Quantum Information and/or Quantum Computing
* Advanced knowledge of quantum mechanics
* Experience with Mathematica and Matlab or other programming language
* Ability to communicate research results effectively at professional meetings and conferences

Preferred Qualifications

* Knowledge of theoretical condensed matter and semiconductor physics
* Ability to work under limited supervision

How to Apply for this Job

Applicants should complete the faculty application online at www.jobs.vt.edu posting SR0160208 and attach a letter of application addressing the applicant's
qualifications for this position; current curriculum vitae including a publication list; research statement; and the names of three references. Also please arrange to have three letters of recommendation sent directly to Prof. Edwin Barnes at efbarnes@vt.edu and Prof. Sophia Economou at economou@vt.edu. Review of applications will begin immediately and continue until the position is filled. Virginia Tech is an Equal Opportunity/Affirmative Action employer, and offers a wide range of networking and development opportunities to women and minorities in science and engineering. Ms. Jacqueline Woodyard, Physics Department, (540)231-7566, or call TTY 1-800-828-1120.