Dear Friends and Colleagues,

Sandia National Laboratories has an immediate opening for a post-doctoral position. The candidate will be hired to work in the area of silicon-based quantum computing. We are looking for an outstanding and motivated candidate that is interested in the areas of few electron silicon quantum dots and single donor devices for quantum bits. Experience in any of the following areas will be of significant interest: silicon or SiGe device nanofabrication, single donor fabrication techniques (e.g., STM based approaches), single electron devices in either column IV or III-V systems, cryogenic CMOS, low-temperature measurement or device modeling.

Selected recent papers from the semiconductor quantum information science group include:


The position will also provide the opportunity to interact with internal modeling and quantum computing architecture teams, offering a rare perspective on theoretical quantum bit and quantum circuit development. The physical qubit team collaborates with numerous internationally recognized groups outside of Sandia National Laboratories affording significant visibility and future opportunities for the candidate.

Minimum qualifications for the candidate are:

- Strong background in semiconductor device physics, nanofabrication or the physics of quantum confined structures
- Background in cryogenic temperatures is highly desirable
- Experience with numeric simulation of quantum confined structures
- Desired minimum GPA of 3.4 (undergraduate) and 3.8 (graduate).

Please forward a resume and a minimum of two letters of recommendation or email in PDF format to both:

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