

Postdoctoral Research Position in Electronic Materials

A postdoctoral research position in electronic materials with a focus on semiconductor defects is available in the Physics Department at Simon Fraser University. On-going projects include studies of interface states in $\text{SiO}_2/\text{4H-SiC}$, of interest for power MOSFETS, and defect states in dilute GaAsBi alloys, of interest for high-speed bipolar transistors, laser diodes and multi-junction solar cells. Our primary experimental techniques are deep level transient spectroscopy (DLTS) and related methods, high resolution x-ray diffraction (both laboratory and synchrotron sources) and scanning probe microscopy. Electron microscopes in SFU's Nanoimaging Facility, fabrication facilities in SFU's Nanofabrication Facility and other facilities in the Pacific Center for Advanced Materials and Microstructures (PCAMM) are also available.

Semiconductor research experience is required. Preference will be given to applicants having experience with DLTS and related electrical measurement methods and fabrication processes such as metal deposition, etching and photolithography. The initial appointment, to begin as soon as possible, will be for one year and can be extended by mutual agreement. Applicants should submit a CV that includes a list of publications, a one-page statement of their research experience and interests, and the names and contact information of three people who can provide letters of reference to Dr. Patricia Mooney, Professor and Canada Research Chair in Semiconductor Physics, either by e-mail at pmooney@sfu.ca or by mail at the Physics Department, Simon Fraser University, 8888 University Drive, Burnaby, BC V5A1S6 Canada. For additional information about research activities and facilities at SFU see <http://physics.sfu.ca/> and <http://www.sfu.ca/physics/faculty/mooney/research/>.



Simon Fraser University is located in the greater Vancouver area of British Columbia, Canada