Open Postdoctoral Position in Single Molecule, Nanotechnology

Seeking a Ph.D to support research projects in nanotechnologies related to single molecule spectroscopy with optical tweezers and scanned force microscopy; to be used in conjunction with nanopores and picopores in solid-state membranes for use in sequencing DNA and protein and in the study of protein expression in living cells. The successful applicant must have completed a Ph.D. in physics, biophysics, electrical engineering, bioengineering or a related discipline, with a proven capacity for world-class research that is reflected in a publication record.

Considerable skill in implementing experiments to probe the interactions between living matter or biomolecules and light, electronics, and or abiotic micro/nanostructures is required. Experience in a subset of the following areas is mandatory: atomic force microscopy; scanning tunneling microscopy; transmission electron microscopy; near-field optical microscopy; single molecule FRET; low-noise, high frequency measurement techniques; lock-in measurement techniques; semiconductor fabrication and processing; and a facility for programming especially in Labview, Matlab, C++ and Igor. For more information, please refer to the web-site: http://www.nd.edu/~gtimp/

Interested applicants should send a detailed CV, along with a list of publications, and arrange to have at least three letters of recommendation sent directly from references via email to Prof. Gregory Timp (gtimp@nd.edu), 316 Stinson-Remick Hall, Notre Dame, IN 46556