**Postdoctoral Position in Nanobiotechnology**

Seeking a Ph.D to support research projects in nano-biotechnologies such as single molecule spectroscopy with either scanned probe microscopy or optical tweezers; sequencing protein or DNA using solid-state nanopores; or time and space-resolved studies of gene activity in living tissue assembled in hydrogels using live cell lithography. The successful applicant must have completed a Ph.D. preferably in physics, biophysics, electrical engineering, bio-engineering or a closely 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. Extensive experience in a subset of the following disciplines is **mandatory**: atomic force/scanning tunneling microscopy; free-space laser optics and preferably optical tweezing; transmission electron microscopy; micro- and nanofluidics, immunofluorescence, molecular biology; cell culture; semiconductor processing; low-noise, phase-sensitive lock-in measurements; and a facility for programming in MATLAB and LABVIEW, C++, and R. For more information, candidates should refer to the web site: http://www3.nd.edu/~gtimp/

Interested applicants should send a detailed CV, along with a list of publications, and at least three letters of recommendation, preferably via email, to Prof. Gregory Timp (gtimp@nd.edu), 316 Stinson-Remick Hall, Notre Dame, IN 46556. **In the cover letter, delineate specifically how your skills can be applied to the work in this lab.**

**Contact:**
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