

Postdoctoral Position in Single Molecule Nanotechnology University of Notre Dame

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Posted Mar. 20, 2020, set to expire Aug. 1, 2020

Job Title	Postdoctoral Position in Single Molecule Nanotechnology
Department	Electrical Engineering & Biological Sciences https://ee.nd.edu/
Institution	University of Notre Dame Notre Dame, Indiana
Date Posted	Mar. 20, 2020
Application Deadline	Open Until Filled
Position Start Date	Available Immediately
Job Categories	Post-Doc
Academic Field(s)	Nanotechnology Biology - Molecular
Job Website	https://www3.nd.edu/~gtimp/
Apply By Email	gtimp@nd.edu

Job Description

Seeking a Ph.D to support research projects in nanotechnologies related to single molecule spectroscopy with scanned force microscopy and/or optical tweezers, to be used in conjunction with nanopores and picopores in solid-state membranes, for applications in sequencing DNA and protein. 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 is required in implementing experiments to probe the interactions between living matter or biomolecules and light, electronics, and or abiotic micro/nanostructures. 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;

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micro- and nanofluidics; molecular biology; semiconductor processing; low-noise, phase-sensitive lock-in measurements; and a facility for programming in MATLAB and LABVIEW, C++, and Igor. 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 arrange to have at least three letters of recommendation sent via email directly to Prof. Gregory Timp (gtimp@nd.edu). In the cover letter, delineate specifically how your skills can be applied to the work in this lab.

Contact:

Gregory Timp
316 Stinson-Remick Hall
Notre Dame Avenue

EEO/AA Policy

The University of Notre Dame is an equal opportunity employer.

Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

Contact Gregory Timp
Electrical Engineering & Biological Sciences
University of Notre Dame
316 Stinson-Remick Hall
Notre Dame, IN 46556

Contact E-mail gtimp@nd.edu