

Research Scientist or Postdoc Position in Nanotechnology University of Notre Dame

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Posted Sep. 19, 2025, set to expire Jan. 19, 2026

Job Title	Research Scientist or Postdoc Position in Nanotechnology
Department	Electrical Engineering & Biological Sciences
Institution	University of Notre Dame Notre Dame, Indiana
Date Posted	Sep. 19, 2025
Application Deadline	Open until filled
Position Start Date	Available immediately
Job Categories	Post-Doc
Academic Field(s)	Nanotechnology Computer/Information Sciences
Job Website	http://www3.nd.edu/~gtimp/
Apply By Email	gtimp@nd.edu

Job Description

Seeking a Ph.D. to support research projects in nanotechnology related to single molecule and single cell spectroscopy. This work utilizes nanometer-diameter pores through nanometer-thick membranes or quartz pipettes with nanometer-diameter orifices that are immersed in an electrolytic solution to detect single molecules for applications in protein sequencing or identifying cell secretions ex vivo. The successful applicant must have completed a Ph.D. preferably in electrical engineering, physics, biophysics, bioengineering, or molecular and cell biology 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 biomolecules and abiotic nanostructures. Experience in a subset of the following disciplines is **mandatory**: aberration-corrected scanning transmission electron microscopy; micro- and nanofluidics;

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atomic force/scanning probe microscopy; free-space laser optics and preferably optical tweezing; semiconductor device fabrication; high frequency, low-noise electrical measurements; interfacing computers with instrumentation using LABVIEW; and programming in MATLAB, PYTHON, C++, and/or IGOR. For more information, candidates should refer to the web site: <http://www3.nd.edu/~gtimp/>.

Salary category: \$60,000. - \$100,000. dependent on qualifications.

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, please delineate specifically how your skills can be applied to the work in this lab.**

Contact:

Gregory Timp

316 Stinson-Remick Hall

Notre Dame Avenue

Notre Dame, IN 46556

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

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