

Postdoctoral Research Position for Single Molecule and  
Single Cell Technologies  
University of Notre Dame

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Posted Jul. 9, 2025, set to expire Nov. 8, 2025

<b>Job Title</b>	Postdoctoral Research Position for Single Molecule and Single Cell Technologies
<b>Department</b>	Electrical Engineering & Biological Sciences
<b>Institution</b>	University of Notre Dame Notre Dame, Indiana
<b>Date Posted</b>	Jul. 9, 2025
<b>Application Deadline</b>	Open Until Filled
<b>Position Start Date</b>	Available Immediately
<b>Job Categories</b>	Post-Doc
<b>Academic Field(s)</b>	Physics - Atomic/Molecular/Optical/Plasma Nanotechnology Biology - Molecular
<b>Apply By Email</b>	<a href="mailto:gtimp@nd.edu">gtimp@nd.edu</a>

**Job Description**

Postdoctoral Research Position for Single Molecule and Single Cell Technologies

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 solid-state 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 protein structure. The successful applicant must have completed a Ph.D., preferably in molecular and cell biology, electrical engineering, physics, biophysics, 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 biomolecules and abiotic nanostructures and/or nanoelectronics. Experience in a subset of the following disciplines is mandatory: aberration-corrected scanning transmission electron microscopy;

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micro- and nanofluidics; atomic force/scanning probe microscopy; free-space laser optics and preferably optical tweezing; semiconductor device fabrication; high frequency, low-noise electrical measurements; molecular and cell biology; 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/>.

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](mailto:gtimp@nd.edu)). In the cover letter, please delineate specifically how your skills can be applied to the work in this lab.

**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  
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