



UNIVERSITY OF OREGON
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Professor Raghuveer Parthasarathy

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Postdoctoral Position in Experimental Biophysics and Soft Condensed Matter Physics

A postdoctoral position in experimental biophysics and soft condensed matter physics is available in the group of Professor Raghuveer Parthasarathy in the Department of Physics at the University of Oregon. The research focus may be in one or more of the following areas: (1) Illumination of the mechanisms underlying the remarkable physical properties of the bacterium responsible for tuberculosis by creating mimics of the bacterial envelope. Work to date has already uncovered surprising stress resistance on the part of a membrane lipid (*Biophys. J.*, in press, June 2008). (2) Examination of macromolecules (proteins, DNA, etc.) attached to membranes and other surfaces to reveal the physics that determine molecular orientation, using optical techniques capable of nanometer-scale topographic precision. (3) Direct measurement of the forces responsible for the coalescence of emulsion droplets using a new type of optical trap recently developed by our group. Our group's research lies at the interface of Physics, Chemistry, and Biology, and makes use of facilities and collaborative interactions across these areas. Our research is funded by the National Science Foundation, the Alfred P. Sloan Foundation, the Oregon Nanoscience and Microtechnologies Institute, and others.

The successful candidate must have a Ph.D. in Physics, Chemistry, Biophysics, or a related field and should have experience that can overlap with the above topics. The ability to work well with others, including graduate students and undergraduates, the ability to learn new skills quickly, and good communication skills are very important. The successful candidate will support and enhance a diverse learning and working environment. The appointment will be for one year with potential renewal for one to two years thereafter.

To apply or for more information, please contact Professor Raghuveer Parthasarathy, Dept. of Physics, University of Oregon, Eugene 97403-1274 or raghu@uoregon.edu. If applying, please send an application letter, curriculum vitae, and the names of three references. The deadline is July 1, 2008, though applications may be considered until the position is filled. Additional information about the group can be found at our web site: <http://physics.uoregon.edu/~raghu/>. The University of Oregon is an equal opportunity, affirmative action employer committed to cultural diversity and compliance with the Americans with Disabilities Act.

DEPARTMENT OF PHYSICS

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