Applications are invited for two postdoctoral fellowships in biophysics and soft condensed matter physics at New York University to begin in January 2004. Each position is for one year, renewable upon mutual consent. These fellowships will focus on experimental studies of mesoscopic processes in structured and time-varying potential energy landscapes. This NSF-funded program combines precision 3D digital video microscopy, microfluidics and state-of-the-art dynamic holographic optical trapping to elucidate the origins of collectivity and cooperativity in model systems, and to develop breakthrough new technologies for organizing, assembling and transforming mesoscopic and biologically relevant matter. Highlights of the group’s previous activities in this area are described on the web at [http://physics.nyu.edu/grierlab/](http://physics.nyu.edu/grierlab/).

The proposed research program is inherently interdisciplinary. Creative researchers with backgrounds in such areas as condensed matter physics, biophysics, chemical engineering, applied mathematics, and physical optics are encouraged to apply. In addition to its experimental focus, this program also will involve active development of new theory, particularly in such areas as classical many-body statistical mechanics, fluid mechanics, and electrokinetic phenomena. All of these efforts will involve close collaboration with academic and industrial research partners. A doctoral degree in a relevant experimental field is required. Interested parties should send a current vitae, a list of publications and three letters of recommendation to

David G. Grier  
c/o Lorelei DeMesa  
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New York University  
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Applications will be reviewed on a continuing basis, starting October 31, 2003, until the positions are filled.

New York University is an Equal Opportunity / Affirmative Action Employer.