Postdoctoral Position Opening: 3D Super-Resolution Microscopy and/or Single-Molecule Tracking in Cells

Laboratory of Prof. W. E. Moerner
Department of Chemistry, Stanford University, Stanford, CA

An opening currently exists for an exceptional post-doctoral researcher in the areas of super-resolution microscopy and/or single-molecule tracking in the Moerner Group at Stanford University. The principal goal of the research effort is to utilize new 3D imaging methods and analysis approaches to explore biological processes and structures on the nanoscale.

This research will broadly involve single-molecule and related super-resolution optical microscopies for imaging in two and three dimensions. The post-doctoral associate will participate in a multidisciplinary research program which often includes biologists, physicists, chemists, optical scientists, engineers, and biochemists, and therefore must be able to thrive in an open and collaborative environment. The successful candidate needs to have demonstrated deep creativity, excellence, and motivation, and must have previous experience in at least two and preferably three of the following areas: lasers and/or optics, ultrasensitive and/or super-resolution microscopy, multiscale image analysis, single-molecule spectroscopy/microscopy/tracking, cell culture, and biophysics. All applications must list which of these skill areas are central to the candidate’s background. The position will include experimental measurements, extraction of detailed models for the observed behavior, and possible development of new experimental designs. The position is for two to three years, one year at a time. Applications are welcomed from diverse, highly qualified candidates traditionally under-represented in STEM fields.

Interested individuals should send a curriculum vitae, publication list, and names of three references to:

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