Postdoctoral research opportunity
The RNA Institute, University at Albany
Laboratory of Dr. Ken Halvorsen

Research focus: Developing new tools for RNA detection and analysis using single-molecule and DNA nanotechnology approaches

We are seeking a highly motivated and independent individual interested in working with advanced single-molecule techniques and DNA nanotechnology to advance RNA detection and analysis. Specific projects involve further development and application of the Centrifuge Force Microscope (CFM) to identify and analyze individual RNA molecules, and continued development of our “DNA nanoswitch” biosensor for RNA applications.

The ideal candidate will have a keen interest in technology development, along with engineering experience and wet lab experience with molecular biology techniques.

Minimum Qualifications:
• Ph.D. in Biomedical Engineering, Biophysics, Biochemistry or related field from a college or university accredited by USDOE or an internationally recognized accrediting organization

Preferred Qualifications:
• Background in single-molecule biophysics (optical tweezers, AFM, etc.)
• Hands-on engineering and prototyping experience
• Experience/familiarity with DNA nanotechnology/DNA origami
• Expertise in optics, image analysis, or programming

Contact khalvorsen@albany.edu with your CV if you are interested.