BIOmolecular Nanosystems with ever-Increasing Complexity & Size LABoratory (BIONICS LAB), also known as Hariadi lab is eager to recruit 2 postdocs who are interested in a multi-disciplinary approach to studying non-equilibrium organization of biomolecular systems.

We are an energetic lab supported by an NIH Director’s New Innovator Award of $1.5M and other grants. Our lab is part of a tightly-integrated research team at the Biodesign Institute and Center for Biological Physics at ASU. We are recruiting postdoctoral candidates to launch our science to the next level!

We use multidisciplinary approach to dissect biophysical processes involved in disease pathogenesis, such as (i) actin-myosin interactions, (ii) intracellular parasite invasion (e.g., Toxoplasma), and (iii) viral infections. These projects leverage our unique expertise in DNA origami nanotechnology, protein engineering, microscopy, and single-molecule biophysics. The DNA origami scaffolds simultaneously (i) arrange proteins or viral particles at molecular resolution and (ii) induce, tune, and measure the tension across proteins of interest. If successful, these projects will provide more evidence of mechanical forces as a fundamental factor, alongside biochemical interactions and genetic information, in controlling biological functions with implications in science and medicine.

Your tasks
Specific research goals will be discussed with and agreed on by the Principal Investigator.

1. Responsibilities of the postdoc position in biophysics include (i) taking a primary role in ongoing optical microscopy development projects and (ii) leading and/or participating in projects on studying protein structures and functions under tension using single-molecule FRET and cryo-EM.
2. Responsibilities of the postdoc position in molecular biology or protein biochemistry include (i) leading projects on structural and functional study of mechanosensitive proteins under tension and (ii) leading and/or participating in projects on recombinant proteins expression.

The postdoc will have intellectual freedom to develop new projects and new collaborations according to their research interests.

Your profile
1. Have expertise in at least one of these areas:
   (i) DNA nanotechnology, (ii) super-resolution microscopy, (iii) molecular biology (e.g., cytoskeleton), (iv) cryo electron microscopy, and (v) virology.
2. Have a Ph.D. or nearing completion of a Ph.D. in Physics, Molecular & Cellular Biology, Biomedical Engineering, Biochemistry, or related topics.
3. Some computational/analytical skill would be a distinct advantage.

ASU is an equal opportunity/affirmative action employer. [https://research.asu.edu/about-us/jobs](https://research.asu.edu/about-us/jobs)

**How to apply**

Interested candidates should e-mail Rizal Hariadi at [rhariadi@asu.edu](mailto:rhariadi@asu.edu) with the following:

1. (Optional) Brief statement of research interest.
2. CV or NIH Biosketch.
3. Two or more references (contact information only).
4. (Optional) Miscellaneous documents.

Online interviews will be arranged soon after receiving applications but the positions will remain open until filled.

Further information about the lab and relevant publications can be found at [www.rizalhariadi.com](http://www.rizalhariadi.com).