



Two Postdoc Positions in Cell Biophysics at NCSU and Georgia Tech

We seek postdoctoral researchers for an interdisciplinary, NSF-supported research initiative on building synthetic cytoskeletons. Two positions are available, one at NC State University in Raleigh, NC and one at Georgia Tech in Atlanta, GA. We will devise novel approaches to build “prosthetic” or “transplanted” cytoskeletons in living cells. For instance, we propose engineering dynamic force-generating structures inside of cells using magnetic particles or myonemes. With this mesoscale approach to building synthetic cells -- neither fully top-down nor bottom-up -- we will test organelle modularity, asking how and whether synthetic cytoskeletons can be integrated into living cells. There will also be opportunities for related theory/modeling work.

This project is a multidisciplinary program involving physicists, engineers, cellular biologists, theorists/modelers, and social scientists. The PIs are: Prof. Mary Williard Elting (NC State), Prof. Saad Bhamla (Georgia Tech), Prof. Fred Chang (UCSF), Prof. Jane Maienschein (Arizona State University) and Prof. Aaron Dinner (University of Chicago).

We seek candidates with experimental expertise in cell biology, biochemistry, biophysics, and/or biomolecular engineering. A collaborative, interdisciplinary and creative mindset is essential. Given the highly interdisciplinary nature of the work, we welcome candidates of diverse backgrounds with PhDs in broadly related fields. Members of underrepresented minority groups and women are strongly encouraged to apply.

We currently have 2 open positions, one centered at in the [Elting Lab](#) at North Carolina State University and the other in the [Bhamla Lab](#) at Georgia Tech. We also plan annual collaboration meetings at the Marine Biological Laboratory in Woods Hole, MA. We currently have funding for a 3 year position, with the possibility of renewal. The position could start as early as September 2019. To apply, please send your CV, a list of 3 references, and a short cover letter to Mary Elting mary.elting@ncsu.edu and Saad Bhamla saadb@gatech.edu. Please include whether your primary interest is in a position at NC State or at Georgia Tech, or if you would like to be considered for both.

Please reach out to us with any questions.

Mary, Saad, Fred, Jane, and Aaron