Two computational postdoctoral fellow positions are available in the Soft Matter group in the Physics Department at Brandeis University. (1) The first position is a joint position between the computational group of Michael Hagan and the experimental group of Zvonimir Dogic in Brandeis Physics and will be a part of the Brandeis MRSEC (http://www.brandeis.edu/mrsec/). We will use coarse grained simulations to explore the role of molecular chirality in mediating the assembly of large-scale structures. The simulations will be integrated with experiments studying the nonlinear mechanics and polymorphic transitions of bacterial flagella upon their assembly into rope-like bundles as well as the assembly of rod-like viruses into macroscopic membranes, chiral ribbons, or other complex structures. (2) The second position is in the Hagan group and will study viral capsid assembly using a combination of coarse grained simulations, atomistic simulations, and enhanced sampling techniques. This project is part of a close collaboration with an experimental virology group.

The ideal candidates would have experience in performing coarse grained or atomistic simulations and a PhD in biophysics, condensed matter physics, chemistry, computer science, or a related field.

Candidates interested in either of these positions should forward their CV with publication list and outline of research interests, and arrange for three recommendation letters to hagan@brandeis.edu. Please indicate "postdoc application" in the e-mail subject line. Candidates may also include up to four selected preprints and reprints. Both positions are available until filled.

Brandeis University is located in Waltham, MA, just outside of Boston, and is an Equal Opportunity Employer.