A research assistantship is available for an EE PhD student interested in research on GPUs (graphics processing units) and their use in computational biology. The student will help implement protein docking algorithms on GPUs (based on existing CPU codes), and will help investigate a related area, such as new GPU algorithms, GPU performance modeling, new GPU microarchitectural features, etc. The student will work with an interdisciplinary group including faculty and students from electrical engineering, computer science, biological sciences, and physics. Applicants are expected to have a strong background in programming and computer architecture, a willingness to refresh and build upon their undergraduate background in chemistry and physics, as well as practical programming skills.

The assistantship, which is offered through the LA-SiGMA project, will start Spring 2013 and be funded through Spring 2015. Interested students should submit a resume to David Koppelman, koppel@ece.lsu.edu.