The J. M. Schwarz Theory Group in the Department of Physics at Syracuse University welcomes applications from postdoctoral candidates interested in theoretical descriptions of living and nonliving matter. The candidate will be grappling with such issues as: (1) the interplay between constraint counting, geometry, and forces in determining the properties of frictional, jammed solids, (2) the interplay between mechanics and morphology in coupled semiflexible polymer networks to explore mechanical mechanisms regulating a number of living processes ranging from transcription to cell crawling, and (3) understanding the brain as a material to better understand how it functions. Depending on the project, the work ranges from a mix of analytical and computational approaches to predominantly computational, augmented by heuristics. Please see jmschwarztheorygroup.org for a few more details about prior work in the group. There will also be opportunity for collaborations with other faculty, students and postdocs in the Syracuse Soft Matter Program (that includes faculty members Mark Bowick, Lisa Manning, Cristina Marchetti, and Joseph Paulsen).

The position will begin at a flexible date, preferably in the spring of 2016, and has a duration of one year, with the possibility of renewal for a second year. For consideration, applicants must complete an online application at http://www.sujobopps.com/postings/62155 and attach a cover letter, CV, and a brief description of their research interests. They also need to arrange to have three letters of reference submitted to the website. For inquiries, please contact Prof. J. M. Schwarz at jschwarz@physics.syr.edu. Review of applications will begin immediately and continue until the position is filled. Syracuse University is an equal opportunity employer committed to excellence through diversity.