

Open Positions in Multiscale Modeling of Materials at
New Jersey Institute of Technology, Newark, NJ, USA

Our group in the Department of Mechanical and Industrial Engineering at New Jersey Institute of Technology (NJIT) is working on a range of problems, involving mechanics and physics of 2D materials, soft materials and biological systems. We employ methods of continuum mechanics, mathematics, statistical physics and atomistic simulations to explore the mechanics of 2D materials, electromechanical coupling in soft materials, as well as physical mechanisms underlying the interface of nanomaterials and biology. Those with strong background in solid mechanics, physics or mathematics are encouraged to apply.

Ph.D. Position

We have opening for two full-funded Ph.D. students, starting from Fall 2023. We welcome self-motivated students with backgrounds in applied mechanics, material science and physics or closely related fields. The candidate will be involved in several research-related tasks, such as critical reading and thinking, developing new skills and academic writing. In our group, you will have plenty of opportunities to engage into multi-disciplinary areas, learn novel techniques and employ a remarkable breadth of knowledge, ranging from mechanics and mathematics to physics and biology. If you are interested, please contact me at Fatemeh.ahmadpoor@njit.edu with your most recent CV no later than Jan 15th, 2023.

Postdoc Position

We have opening for one postdoc, starting immediately to work on continuum mechanics modeling of biological membranes. Recent Ph.D. graduates with strong background in modeling of the mechanics of soft materials and/or cell mechanics are strongly encouraged to apply. If you are interested, please contact us at Fatemeh.ahmadpoor@njit.edu with your most recent CV.

NJIT is at among the top 100 "Best Graduate Engineering Schools" (per U.S. News & World Report). It offers a vibrant engineering community environment and exciting opportunities for research and education. Interdisciplinary centers and institutes across the campus (<http://centers.njit.edu/>) provide access to comprehensive, state-of-the-art core facilities and facilitate collaborative research activities. Universities, research institutes and industrial facilitates at the vicinity of NJIT further increase collaboration opportunities and access to experimental equipment. NJIT is located in the vibrant University Heights district of downtown Newark, just 20 minutes from Manhattan, NY by train.

