

PH.D. GRADUATE STUDENT AND POSTDOCTORAL FELLOW POSITIONS

Open Positions: Our Integrative Mechanobiology & Biophysics (IMB) Laboratory is looking for highly self-motivated, creative, and hard-working PhD students and postdoctoral fellows to join. The successful applicants will have a critical role in transforming the landscape of bioengineering and biophysics by developing new technologies to reveal the inner workings of biological systems. Full financial supports will be provided.

Position Summary: The IMB laboratory's research is transdisciplinary by nature. We study how mechanical forces affect the biological functions in living cells and organisms. We innovate bio-inspired engineering to solve grand challenges in sustainable health care, energy, and environment. Our laboratory integrates physics theory of solid and fluid mechanics, super-resolution STORM/PALM/STED imaging, optogenetics, CRISPR/Cas9 genome editing, nanotechnology, biochemistry, and computational modeling. We apply our findings to prevent, diagnose, and treat mechanics-associated human diseases, including cancer, immunology, cardiovascular diseases, and brain disorders. The successful applicants will receive cutting-edge multidisciplinary training and participate projects with full financial support. We deem it is our key responsibility to promote all our students/trainees to successfully achieve their career goals. Please visit: [The IMB Laboratory](#)

Interested candidates can send (1) the professional CV (summarizing previous research/work experience, research interest, and other career accomplishments) and (2) contact information of 2–3 reference letter writers to the PI Dr. Tang at xin.tang@ufl.edu with the subject "PhD candidate or Postdoctoral candidate application".

Minimum Qualifications and Application Procedure:

1. Strong self-motivation and work ethics for scientific research;
2. Excellent research experience with peer-reviewed journal publication record demonstrating accomplishments;
3. Prior hands-on experience with design and construction of optical microscopes, electronics, laser, nanofabrication, biochemistry, programming (such as LabView, Python, MATLAB, or AI/ML), are highly preferred, but not required;
4. Although our projects require excellent experimental skills, prior experience with analytical and numerical simulation, e.g., multiscale computational modeling, are strong plus;
5. **For PhD student candidates:** A degree of M.S. is highly preferred. Background in one or more of the engineering or science discipline (mechanical and/or aerospace engineering, materials science, biomedical engineering, electrical engineering, bioengineering, or physics) is encouraged to apply. Qualified TOEFL/GRE scores to meet admission requirement is necessary.
6. **For Post-doctoral fellow candidates:** A PhD or MD degree in a relevant engineering or science discipline, including but not limited to mechanical engineering, materials science, biomedical engineering, electrical engineering, bioengineering, physics, chemistry, computer science, medicine, or biology, is required;

Lab Leader: The PI Dr. Xin Tang received HHMI-funded post-doctoral training at Harvard University and PhD from University of Illinois at Urbana-Champaign. He is an assistant professor of Mechanical and Aerospace Engineering at University of Florida, with affiliation to Department of Biomedical Engineering, UF Health Cancer Center (NIH/NCI-designated), and McKnight Brain Institute.

About UF and Benefit: UF ranks among America's Top 5 best public universities and Top 29 best colleges in U.S. News 2022 rankings (<https://www.usnews.com/best-colleges/rankings/national-universities/top-public>). Its College of Engineering is one of the largest and most dynamic engineering colleges in the U. S., providing world-class courses, research conditions, and scientific facilities. UF locates in Gainesville city, the "Healthiest Community in America" and won the "Gold Well City" award. For all IMB lab members, their compensation for the positions will be based on NIH guideline and will include a competitive stipend, benefit, and retirement package. All IMB lab members will be mentored and encouraged to apply for independent funding.