

MMOT Lab Group Mission and Values

The Mechanics and Modeling of Orthopaedics Tissues (MMOT) Laboratory at Bucknell focuses on orthopaedic biomechanics, mechanobiology, and computational modeling projects by emphasizing the undergraduate student experience. The group is led by Prof. Ben Wheatley in the Department of Mechanical Engineering.

Our lab mission is to provide an environment where individuals grow academically, professionally, and personally by being at the forefront of student-led biomechanics research and by creating an inclusive and supportive environment for all members.

We value:

1. Training undergraduate students to conduct and disseminate rigorous biomechanics and mechanobiology research
2. A willingness to be independent and curious in pursuit of research and professional development goals
3. A willingness to be a contributing member of a team and an active supporter of each lab member personally and professionally
4. An interdisciplinary group of students across different colleges, majors, and academic years engaging in different research projects
5. Diversity in the group and an inclusive environment for all persons regardless of race, ethnicity, gender identity, ability, nationality, age, etc.
6. Ownership over a project, an understanding of how that project contributes to society, and an ability to effectively communicate to a wide range of audiences
7. Enabling individuals to accomplish their career goals after Bucknell

