

# Katherine Cox '25

Undergraduate Research in Hixson Lab at Dartmouth

Fall 2023

I spent this fall as an undergraduate researcher in the Hixson lab here at Dartmouth. I was able to pursue my interest in biomedical engineering, working with cryogel bone scaffolds and looking into how to maximize recovery in craniofacial defects. I used many different data collection and analysis techniques including SEM, compression testing, and swell testing. Furthermore, I also got the opportunity to work with our recirculator to prepare for future experiments at varying temperatures, collecting data to determine the ideal motor step speed to temperature ratio. I also enjoyed learning about the projects that the other members of my lab were working on. Overall, I got a lot out of this experience and I am super excited to continue to work in the lab in the future.

I am very grateful to the Byrne Program for giving me the opportunity to have this valuable experience!