



PhD Position in Experimental Bio-Fluid Mechanics

A PhD position is available in the Murphy Fluids Laboratory in the USF Department of Mechanical Engineering in Fall 2020 or Spring 2021. The project aim is to understand flapping flight at low Reynolds numbers by sea butterflies “flying” in water and tiny insects flying in air. The project will involve experimental measurements of 3D animal kinematics using stereophotogrammetry and of the flows they generate using volumetric particle tracking velocimetry and ultra-high speed aerial micro-PIV. The project also will involve travel to Bermuda to acquire sea butterflies and development of a soft robot model of a sea butterfly wing.

Located in sunny Tampa, FL, the University of South Florida is one of three Preeminent State Research Universities in the state of Florida and is ranked 25th in the nation among public universities in annual research expenditures (NSF). Further, Tampa is the nation’s second fastest-growing tech hub, and USF ranks 7th in the nation among public universities for granted U.S. patents.

Review of applications will begin immediately. To apply, please email a single PDF file containing a resume and a cover letter outlining your interests, qualifications, and availability to Dr. David Murphy at davidmurphy@usf.edu.

www.murphyfluidslab.com

