

Name: Susannah Smith

Year in Course: 3rd, Senior Year

Topic: Wind Energy

Mentor: Sam Roach, UMass Amherst

Title: Investigating the Impact of Region 2 Operation on Spar, Barge, and Semi-submerged Offshore Wind Turbine Platforms using OpenFAST



Bio:

Susannah Smith is a senior at Pawling High School. She is a Varsity field hockey captain, competitive dancer, and artist. Her passions are architecture, sustainability, drawing, and fashion. In her free time, she plays field hockey, dances, plays with her dog, and paints. She will be attending Cornell University in the fall of 2021 in the 5 year B. Arch program to further her exploration in the sciences and design. Currently, Susannah is completing a research project through SUNY Albany's UHS Science Research program involving simulation of wind turbines with OpenFAST.

Her scientific interests lie in airborne wind energy (AWE), offshore wind energy, renewable power, and the design process of turbines and green design. She is currently working on a project using the software OpenFAST, where she will explore ways in which individual turbines and wind farms could be improved to be more efficient. In the future, she hopes to apply some of the principles of wind energy to building sustainable structures and housing.

Awards/Honors:

-Robert S. Pfirman Award 2021

-DSEF Honorable Mention

-3rd Place Environmental Science Regional JSBS