

NEWS RELEASE

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Florida International University Leverages VABS Software to Optimize Aerospace Structures, including Wings and Antennas

University conducts research to identify optimal configurations to maximize longevity, enhance safety, and expand function

West Lafayette, Indiana (USA) - [AnalySwift, LLC](#), a provider of efficient high-fidelity modeling software for composites, announced today that Florida International University is participating in its Academic Partner Program (APP), and it is using its VABS simulation software for researching aerospace structures such as wings and antennas. The work is part of the broader Fluid-Structure Interaction (FSI) Laboratory within the Department of Mechanical and Materials Engineering, which seeks to improve aerospace structure design and facilitate stress flow based on the principles of Constructal Law.

The APP offers participating universities no-cost licenses of engineering software programs VABS and SwiftCamp to students, researchers, and faculty can leverage the tools in their academic research.

The [VABS program](#) is a general-purpose cross-sectional analysis tool for predicting structural/beam properties and recovering 3D stresses, strains, and strengths of slender composite structures. It is a powerful tool for modeling composite rotorcraft/helicopter, air mobility, unmanned aerial vehicles) and wind turbine rotor blades, as well as other slender composite structures, such as propellers, landing gear, and high-aspect ratio wings.

"We are excited by the work being done by the Florida International University and pleased they have found VABS helpful in as part of their design and analysis workflow as they improve longevity and functional capabilities of aerospace structures," said Allan Wood, president & CEO of AnalySwift. "As a versatile cross-sectional analysis tool, VABS delivers high-fidelity results early on to help computationally resolve engineering challenges, reduce trial and errors, and arrive at the best solution more quickly."