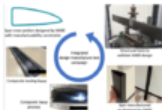


NEWS RELEASE

March 11, 2024

Penn State Advances IVABS for Design-To-Production of Composite Rotorcraft Blades



University is incorporating manufacturing constraints into the design process to enable more realistic blades.

West Lafayette, Indiana (USA) - [AnalySwift, LLC](#), a provider of efficient high-fidelity modeling software for composites, announced today that Penn State has been participating in its Academic Partner Program (APP). Penn State has been using AnalySwift's VABS simulation software as well as the open-source IVABS tool to improve the manufacturability of composite rotor blades used for helicopters, air mobility, and other rotorcraft. The work is part of the [Penn State Vertical Lift Research Center of Excellence \(VLRCE\)](#), a premier research and education hub at Penn State dedicated to advancing vertical lift technologies—such as helicopters, drones, and VTOL systems—in key areas like aeromechanics, flight dynamics, propulsion, acoustics, and survivability.

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