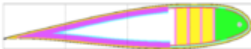


**NEWS RELEASE**

August 4, 2024

## Seoul National University Designs Air Mobility Blades, Digital Twin Technologies using VABS



*University conducts research to establish design methodologies applicable to urban air mobility (UAM) systems and to develop digital twin technologies that can be utilized in the aerospace industry*

West Lafayette, Indiana (USA) - [AnalySwift LLC](https://www.analyswift.com), a provider of efficient high-fidelity modeling software for composites, announced today that Seoul National University (SNU) is making advances applicable to the aerospace industry as part of its Academic Partner Program (APP). Specifically, SNU has been using AnalySwift's VABS simulation software for designing rotor blades for UAM and developing digital twin technologies. The work is part of the Active Aeroelasticity and Rotational Laboratory (AARL) in the Department of Aerospace Engineering at Seoul National University and the Seoul National University Urban Air Mobility Center (SNU-UAM Center), a research center dedicated to developing the core technologies for urban air mobility.

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

The [VABS program](https://www.vabsprogram.com) is a general-purpose cross-sectional analysis tool for predicting structural/biomechanical properties and recovering 3D stresses, strains, and strengths of slender composite structures, particularly blades. It is a powerful tool for modeling composite rotors/helicopters,