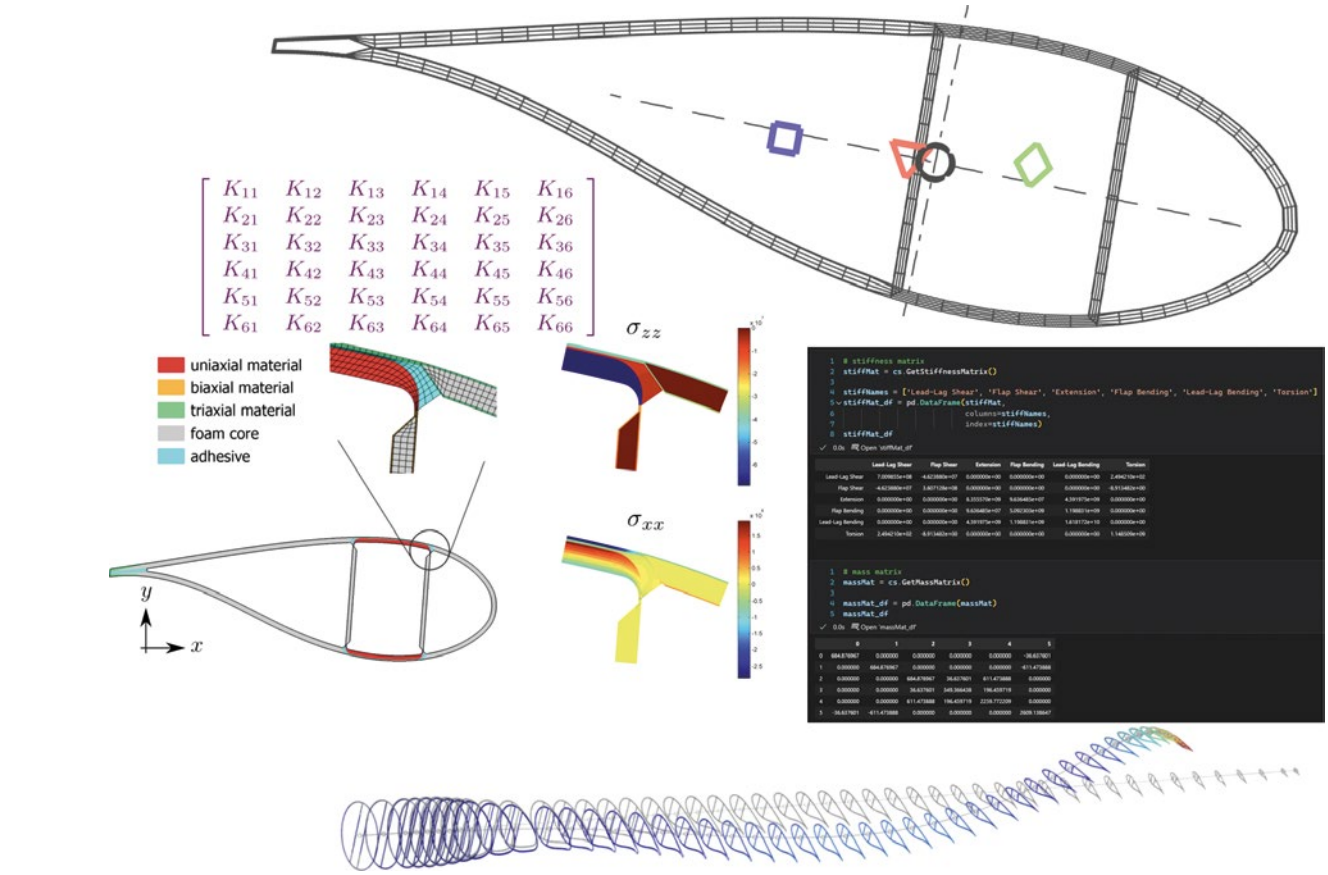
DTU Wind and Energy Systems



BECAS

Cross-Sectional Analysis Software for Composite Blades

BECAS is the ultimate industry-standard software for computing precise structural properties of composite blades with lightning-fast speed. The software is well-established in the design process of wind turbine blades, even including off-axis elastic couplings.

BECAS is a tool that allows users to quickly evaluate complex cross-sectional designs with the same accuracy as a detailed 3D finite element analysis. The tool can be easily integrated into existing design frameworks through convenient interfaces in Python and Matlab programming languages. With comprehensive documentation, users can explore the full potential of BECAS for composite beam-like structures in Wind, Mechanical, Aerospace, and Civil Engineering.

BECAS can facilitate the design and analysis of complex composite blades by:

- Easy integration into the design toolchain for next-generation composite blades
- Fast evaluation of existing blades and improved service life
- Quick assessment of material and geometric effects on blade structural properties
- Convenient integration with known aeroelastic codes, such as HAWC2 and BLADED
- Accurate stress and strain recovery from cross-sectional loads

For more information, please visit www.becas.dtu.dk or write to becas-dtuwind@dtu.dk