

Blunt aerofoil noise emission

Student Project Proposal

APPLY

Contact person:

Erik Sloth

E-mail:

ERSLO@Vestas.com

Short description of the project:

- Trailing edges quality is known to be of high importance during design of quiet wind turbine blades.
- Models for the noise emission is often taking start point in investigations for symmetric aerofoils
- Project aim to investigate noise emission for medium to thick aerofoils having thick trailing edges

Scope:

Project will take start point in specific aerofoil shapes as applied in modern wind turbine design and will plan and include acoustic wind tunnel campaign planning and testing of aerofoils with varying trailing edge thickness and shape.

Improved models for blunt trailing noise emission will be derived from test results.

Noise emission for tested configurations will in addition be investigated using TNO models.

Other information (not mandatory):

- Master thesis
- Application deadline
- Link to articles

Keywords

For example: Control, Estimation, machine learning, wind modelling.

