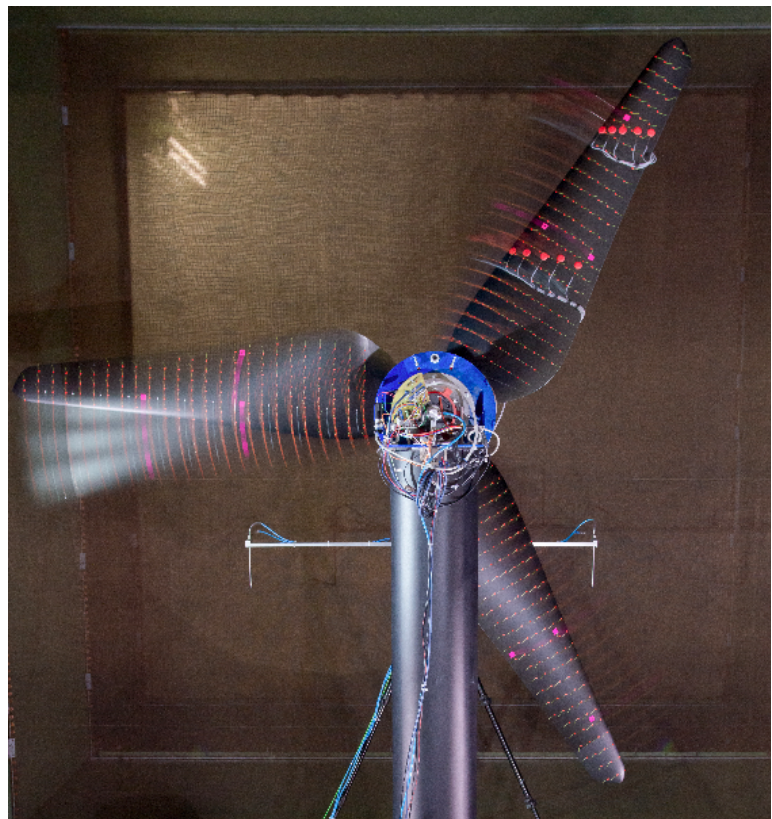


SMART BLADE is a small, innovative engineering company with strong expertise in wind turbine aerodynamics and blade design. We provide power upgrades for wind turbines and work together with major operators, service providers and manufactures in the wind energy market. One way to improve the performance is to optimize the yaw alignment of the turbine and to correct for any offset to the mean inflow direction.

## Thesis: Experimental investigation of yaw misalignment on wind turbines

### Key words:

Wind tunnel experiment /  
GroWiKa/ Research Turbine  
BeRT / Pressure  
measurements / Sensor  
calibration / Panel method



### The opportunity:

We offer a thesis topic for the investigation of yaw misalignment on wind turbines. New sensor concepts shall be investigated on a small scale research turbine in the wind tunnel, in order to detect and determine the yaw error. The sensor calibration may need the use of panel codes or bluff body aerodynamics.

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