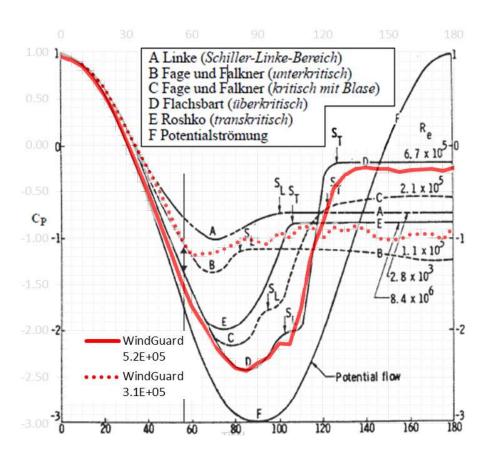
Proposal 3 for a Master-Thesis:

Tower and root section of blades have cylindrical shape. A critical region (in Reynolds number) is 300 k to 600 k. See pressure plot below [1].



The thesis consists in setting up (with help from my group) an OpenFOAM case for a Large Eddy Simulation (LES) [2,3] and to investigate transition and separation.

References:

- [1] https://iopscience.iop.org/article/10.1088/1742-6596/753/7/072006/pdf
- [2] fluids-06-00024.pdf
- [3] J. Fröhlich et al, Large Eddy Simulation of Flow around Circular Cylinders on Structured and Unstructured Grids