

Internship and Master's Thesis at the Hamburg office

Quantitative determination of uncertainties regarding the use of generic models in the load simulation of wind turbines for lifetime extension calculations

As a provider of engineering services, each project presents us with new challenges. Especially the abilities and the engagement of each individual team member and the cooperation within a team ensure that the project becomes a success for our customers and us. We live flat hierarchies and short communication channels and an appreciative and respectful treatment of one another. All members of the team can actively help shape the present structures and explore new paths with the company. Whether you specialize in expert knowledge or management is decided in recurring mutual discussions – everyone has a say in his or her own development.

If you are not intimidated by difficult problems, like to actively participate in finding solutions and act independently and responsibly, and if you can identify with our values, **we are happy to receive your application!**

You can expect

- entry into the aeroelastic simulation of wind turbines with FAST
- deepening of your methodological skills in programming with Python
- to work on an internal project to quantify model uncertainties in which you
 - plan a comprehensive parameter study with our help,
 - perform the required simulations using our tools,
 - evaluate the simulation results with tools that you help to develop and
 - further develop our current evaluation scheme for uncertainties
- the possibility to use your results for a master's thesis
- general tasks to support the team Load Simulation and Lifetime Extension
- flexible working hours
- to be welcomed by a young, dynamic and likeable team

This position fits your profile if you

- are studying mechanical engineering or a comparable course of study in engineering or sciences for a master's degree
- knowledge of wind energy technology, especially in the simulation of wind turbines (e.g. with FAST)
- have an affinity for programming and knowledge of programming languages, ideally in Python
- like to actively participate in problem solving with your creativity and have a solution-oriented working method
- stay on top of things with your structured work approach even when facing complex problems
- like to work in a team and have good communication skills
- are confident in the German and English languages, spoken and in writing

thinking engineering

Please send your application documents in pdf format via email to:

katja.behler@p-e-c.com

