

## **Guidelines for design, test, safety, and sustainability of small wind turbines**

In this project you will work beside other members of the student competition team for small wind turbine, and learn basics of wind turbine design, wind energy and work together to perform a survey on the standards, handbooks, and guidelines for design and test of small wind turbines. The main goal is to determine guidelines and specifications from standards to design a more sustainable and safer wind turbine. Another important goal is to determine test conditions and scenarios for different functions of a small wind turbine. The output of this work will be used by team members to design components and systems to achieve better performance of the team's wind turbine.

Main tasks/requirements:

- Literature survey on the available standards and handbooks of small wind turbines
- Documentation and creation of instructions for different aspects of wind turbine design and test
- Contribution to the final report of the team for the competition
- Participation in weekly team meetings
- Teamwork and communication with other team members (online for remote students)
- Intermediate English knowledge or above

For more information about our team, visit the page:

<https://www.hs-emden-leer.de/studierende/fachbereiche/technik/projekte/wind-challenge>

Contact person for application or more information:

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