

Would you like to become an important part of our team working with projects for future offshore wind farms?

Do you work within the offshore wind energy sector, and do you want to know more about the complete process from the early-stage wind farm planning incl. site measurements to the installed power-producing wind turbines? Join C2Wind and become a Structural Design Specialist for offshore wind farm projects within our design team.

C2Wind is an engineering consultancy company working within offshore wind. The company was established in 2015 and has since the beginning been working on site conditions assessment, integrated load analysis, substructure- and foundation design, and technical project management with a particular focus on substructure- and foundation design and fabrication. We are currently 12 colleagues, and due to the increasing demand for our services, we expect growth in the coming years.

We are currently involved in projects in Europe, Asia-Pacific, and North America, and support the global growth of the offshore wind industry. C2Wind has contributed to a number of large, detailed design projects in offshore wind, as well as a continuous stream of concept and front-end engineering design (FEED) studies. We continue to strengthen the way we execute and manage these diverse projects, implementing state-of-the-art methods and automating what we can.

Areas of responsibility

We support our clients with diverse types of engineering services for offshore wind projects, and you can expect a variety of tasks, primarily within the structural design of monopile-type foundations and substructures. You will primarily work as a Structural Design Specialist with the following areas of responsibility:

- Structural design of offshore wind support structures (primarily monopiles, and possibly jackets as well as floating foundations).
- Support the offshore wind projects with high-end structural design for the primary and potential secondary structures working closely in a small team. Here you'll be working using finite element modelling tools such as ANSYS as well as internally developed design tools. This could involve monopile design, flange design and stress concentration factor (SCF) calculations.
- Experience with application of finite element modelling for structural analyses, preferably ANSYS Mechanical APDL.
- Structural design checks; both analytical and numerical.
- Production of documentation for detailed design and project certification.
- Simple geotechnical design, limited to the insight necessary to perform structural design.
- Closely collaborate with your colleagues to perform integrated load analysis.
- Quality assurance and quality checks of structural software implementations, calculations, and reports.
- Continuously develop design capabilities, in a joint and integrated effort with your colleagues.

As C2Wind is a small very specialised company within various fields of the offshore wind industry you should be ready to support other various tasks that are not directly your main field of expertise.

Your profile

You have a M.Sc. or higher degree in structural-, civil, or mechanical engineering, and have several years of experience with the structural design of offshore wind support structures, including experience with the IEC-, API-, DNV-, and Eurocode standards. Some knowledge of geotechnical design and aeroelastic load simulations is an advantage.

It is key that you have excellent programming skills (MATLAB, Python, APDL), and that you have already carried out numerical implementation of structural checks such as fatigue checks on welds, structural buckling checks, and geotechnical capacity checks. You should also have experience with finite element methods (FEM), preferably ANSYS. Furthermore, since most of the software used in C2Wind is developed in-house, you need to be comfortable with careful quality checks of MATLAB code.

You enjoy helping your colleagues with their varied tasks, although they may be outside your area of expertise, and you are interested in learning about varied topics and acquiring new skills. An interest in learning about C2Wind's other key areas, such as site conditions assessment and integrated load analysis, is an advantage.

As we work in an international environment, you must have excellent communication skills, and speak and write English fluently. Furthermore, you can convey the essence of complex technical information to your stakeholders.

It is essential that you have a result-oriented approach to your work and that you can demonstrate a strong drive to fulfil your assignments, and a willingness to take the initiative when faced with opportunities to exceed expectations. Furthermore, you will have team spirit and be able to create excellent results through teamwork. You will thrive working both independently, as well as together with your colleagues and business partners.

We offer

A unique and challenging job where you will have the freedom to structure your own work and develop new competencies. You will be joining a dynamic team with competent and experienced colleagues who value knowledge sharing and a focus on high-quality work that adds value to our clients. Besides this we also offer a competitive salary and bonus package as well as flexibility in working hours and locations.

You may choose to be based at either of our offices in Aarhus, Fredericia, or Copenhagen. Any alternative locations can be discussed. The C2Wind main office is located in Fredericia.

Contact us

Please do not hesitate to contact Christian Berg Mørch by telephone +45 50324951 if you want to know more about the position.

We look forward to receiving your application and CV as electronic files at cbm@C2Wind.com. We will review applications and have interviews successively – the latest application date is the 1st of October 2022.