DNV·GL

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Loads Engineer

DNV GL – Energy, with around 2300 experts in over 30 countries around the world, is committed to driving the global transition toward a safe, reliable, and clean energy future. With a heritage of 150 years, we specialize in providing world–class, innovative solutions in the fields of business &technical consultancy, testing, inspections and certification, risk management, and verification.

The division Renewables Certification (RC) as part of the Business Area Energy is a leading certification body for renewable energy projects and the associated equipment. We form the world's largest independent certification body for renewable energy. With a workforce of 200 employees, we have 10 offices located in Denmark, Germany, UK, North America, India, South Korea and China. Manufacturers, banks and insurers around the world rely on the state-of-the-art service we provide. DNV GL delivers world-renowned testing and advisory services to the renewable energy value chain. Its expertise spans onshore and offshore wind power, solar, storage, conventional generation, transmission and distribution, smart grids, and sustainable energy use, as well as energy markets and regulations.

DNV GL are currently looking for a Loads Engineer who will join a team of offshore wind specialists located in Taipei and report to the Area Manager. The team is focused on the growing offshore wind market in Taiwan and the unique technical challenges that will need to be solved. To deliver effectively for our clients we are recruiting talented and motivated engineers to join our team.

Main tasks and responsibilities
To support the successful delivery of offshore wind projects and build trust and confidence in the ability of our clients to deliver bigger, more efficient and lower cost projects the successful candidate will be focusing on the following:

- Independent load calculations (using aero-elastic codes like HAWC2 and Bladed) for wind structures for onshore and offshore installation
- Review client technical documents and methodology to confirm conformance with design standards and certification requirements
- Evaluation of hydraulic, control and protection systems
- Verification of load measurements of wind turbines
- Site assessment for wind farms, including analysis of extreme wind speeds, wind profiles, turbulence and wake effects from other wind turbines

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Loads Engineer

- Deliver consistently high-quality work and meet tight deadlines according to DNV GL accredited certification processes to ensure a consistent, independent and auditable record
- Interaction, communication and collaboration with colleagues internationally to complete integrated analyses for offshore projects
- Lead technical reviews and project progress meetings with clients
- Regular travel within Taiwan and occasional travel to Europe is expected
- Participate in development of DNV GL standards and other research-oriented projects
- Project management tasks for type and project certification projects
- Manage customer relationships and actively develop new business opportunities in the renewables market
- Compliance with DNV GL health and safety policies at all time

DNV GL – Renewables Certification have extensive experience with offshore projects and have worked with 80% of the offshore wind projects to date. The candidate joining the team will be provided with excellent support to improve their technical knowledge and understanding of offshore projects.

Position Qualifications

Required

- Master's degree in Structural, Mechanical or Electrical Engineer
- PhD with a thesis in an applicable topic
- Experience in load modelling for academic or industry projects
- Good English and Chinese language skills (both in writing and speaking)

Advantageous

- Knowledge of offshore design standards and codes
- Familiarity with offshore structures and the technical challenges presented by the local conditions in Taiwan offshore waters
- Experience with offshore related software SESAM, SACS, BLADED, HAWC2
- Experience with MS office, excel, word etc.

Personal skills

We are looking for a candidate who is a good cultural fit at DNV GL, shares our vision for a safe and sustainable future and is passionate about renewable energy. Below are listed some of the key attributes we look for in our employees:

- Has the desire and capability to make a difference and is motivated to be part of the growing offshore wind industry in Taiwan that will produce clean, reliable power to combat climate change
- Is structured and customer focused, always delivering high quality results to our clients
- Works independently, is motivated, energetic, a self–starter and does not give up easily
- Has a positive attitude and a good sense of humor
- Can work under pressure and can multi-task with several on–going projects
- High ethical standards and aligns personal goals with DNV GL's purpose, values and vision
- Willingness to work in a growing, changing and challenging environment at a rapid pace