Tractebel is looking for an intern for our business line Energy in the department Wind Energy

Internship at Tractebel

Brussels

Who is Tractebel?

Tractebel, part of Engie group, has more than 150 years of experience and is one of the world's largest engineering consultancy companies. Tractebel offers his clients multidisciplinary solutions in the fields of energy, nuclear, water and urban. Our teams are present in all the possible phases of a project, from the feasibility studies to the implementation.

You will work as intern for the business line Energy in our department **Wind Energy** which is responsible for all the engineering related to the development and realisation of Wind Energy projects. These projects go from the pre-feasibility studies up to final commissioning of the installations.

Within the Business Line Energy, the wind team handles onshore and offshore wind projects both in Belgium and abroad. Projects cover all phases of development, realisation and commissioning as from a single turbine (2-3 MW) up to large wind farms (> 500 MW).

How will your day look like?

We are looking for a motivated intern who will be responsible for **the development of automated tools to monitor the performance of large wind farms.**

As an international consultancy company in Wind Energy, Tractebel processes daily wind data and production data of wind farm projects all over the world. These data are used to estimate the local wind resource, the energy yield of the wind farm and monitor the performance of the wind turbines. As a first step of the internship, the student will familiarize him/herself with Tractebel's methodologies and tools in that field by being involved in the ongoing (R&D) projects. In a second stage, **the student will actively cooperate with his/her mentor to develop approaches to easily identify performance issues of a wind turbine based on SCADA and wind data of the wind farm. Therefore, the student will analyse SCADA data and detect underperformance, curtailment or control issues. In the final phase, the student will develop an automated tool to efficiently process the performance of large wind farms.**

This involves that:

- You will learn about the methodologies and tools used to estimate the wind resource and energy yield
- You will perform validation exercises
- You will participate in coordination meetings and will be part of the team
- You will carry out a study to assess a particular way of working and compare this with a new methodology
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Who are we looking for?

- You are a studying a master in engineering and you wish to do an internship in an engineering company for at least 2 months. A longer period and the combination with the master thesis is an advantage.
- At the time of your internship, you're in your 2th master
- Knowledge of MS Office is an asset
- You speak fluently English (Dutch and French are an advantage)
- You have good programming skills (python, VBA, …)
- You are driven by the search of innovative solutions
- You are curious and have an initiative mindset
- You appreciate teamwork
- You are client oriented and flexible
- You are dynamic and have good communication skills
- You are well organized and possess a strong team spirit

What do we offer?

- An interesting and varied internship in an international environment with a good work-life balance
- A stable working environment where professional growth and development are stimulated
- Being able to work in an environment that allows you to strengthen your professional and technical skills
- The opportunity to work in a team of experienced professionals and to receive sufficient professional guidance

How to applicate?

Do you think Tractebel is the perfect fit for your internship?

Send us an e-mail to recruitment-engineering@tractebel.engie.com with your CV, a few lines of motivation and indicate which project you want to apply for.

We hope to see you soon !