



## Internship Projects at Tractebel

Tractebel is looking for an intern for our business line Nuclear in the department Engineering management

### 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 responsible for the all the phases of a project, from the feasibility studies to implementation.*

You will work as an intern for the business line Nuclear in our department Engineering management and in the Plan Layout and Integration section which is responsible for:

- Technical Integration: issuing multidisciplinary synthesis reports and ensuring technical consistency of Nuclear project deliverables and technical excellence through coordination of the technical disciplines and overall nuclear expertise;
- Layout (Layout Engineer and Layout Draftsman): achieve an optimum arrangement of a new facility and develop the layout drawings and 3D (BIM) models taking into account constructability, economics, safety and operations:
  - Optimum arrangement of the facility plot plan,
  - Optimum location of all equipment inside the facilities,
  - Optimum routing and arrangement of the different systems, structures and components inside the facilities: civil structures, piping, process, HVAC, mechanical equipment, electrical systems, I&C, etc.,
  - Appropriate provisions for integration of all installation and construction constraints as well as all operation, access, logistics, handling, testing and maintenance requirements e.g. stairways, ladders, platforms, passageways, lifts, hatches, unobstructed areas for access and clearance around equipment, etc.

#### How will your day look like?

We are looking for a motivated intern who will be responsible for BIM Development as part of the BIM me Up program. Building Information Model (BIM) is a collaboration process involving the generation and management of an integrated digital representation (BIM Models) of physical (CAD) and functional characteristics (Data / Documents) of a Building / Facility, its Systems, Structures and Components.



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This involves that:

- Design and implement BIM add-ins and gateways improving interoperability of 3D, CAD, BIM, point cloud, engineering/ computation software, etc;
- Develop solutions working as an expert Python, C#, C++ programmer, writing scalable, reusable, and maintainable code;
- Work closely with other programmers and engineers to develop robust software components, integrating the software with other teams to diagnose and fix software problems;
- Use object-oriented programming languages, web services, client and server application development processes, and internet technologies to construct new BIM software systems;
- Build software that follows industry-standard design patterns, development methodologies, and deployment models.

### Who are we looking for?

- You are a studying Computer Science and you wish to do an internship in an engineering company for at least 3 months
- At the time of your internship, you're at least in your 3th bachelor
- You have coding experience in python, C# and C++ is a must. Knowledge of PCL/ pyqt/ ifcopenshell/ pythonOCC is a plus but not mandatory.
- You have a strong interest in new digital tools and methods (BIM, laser scanner, point cloud, AR/VR);
- You have a mathematical mindset and interest for algorithmic and programming
- You should be based in our headquarters in Brussels;
- You speak fluently English
- You are dynamic, proactive, autonomous, pragmatic and rigorous and have a creative and strong problem-solving attitude;
- You are a team player, good listener, collaborative and communicator

### 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 apply?

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



## Internship Projects at Tractebel

Send us an e-mail to [recruitment-engineering@tractebel.engie.com](mailto:recruitment-engineering@tractebel.engie.com) with your CV, motivation and for which project you apply for.

We hope to see you soon !