Process & Project Engineer

Type: Full-time
Location: Louvain-la-Neuve, Belgium
Seniority : Mid-level (3-5 years)

About ARK Capture Solutions:

ARK Capture Solutions is a Cleantech company providing versatile and affordable decarbonization solutions. Our mission is to fight climate change by unlocking Carbon Capture technology and avoid releasing carbon dioxide into the atmosphere at point source emissions.

Job Summary:

We are looking for a **Process & Project Engineer** to strengthen our engineering team and contribute to the development and deployment of our carbon capture systems.

The role combines **process engineering and project execution**. You will work on the design and optimization of our systems while also supporting their transition from engineering to procurement, construction, commissioning, and operation.

You will work closely with process, mechanical, electrical and automation engineers, as well as suppliers and external engineering partners. This role offers the opportunity to take ownership of technical topics while developing a broad understanding of how complex industrial systems are designed and built.

Key Responsibilities:

Process Engineering

- Develop and optimize process designs for carbon capture systems.
- Perform process calculations, mass and energy balances and equipment sizing.
- Develop and review PFDs, P&IDs, process specifications and technical documentation.
- Define process requirements for equipment and interfaces with other disciplines.
- Participate in design reviews, HAZOPs and technical risk assessments.
- Analyze process performance and identify opportunities for improvement.
- Support troubleshooting during commissioning and operation.

Project Engineering (internal/external projects)

- Take ownership of selected technical work packages from design through implementation.
- Coordinate technical interfaces between process, mechanical, electrical, instrumentation and automation disciplines.
- Prepare and review technical specifications and supplier documentation.
- Follow up engineering deliverables, procurement activities and technical issues.
- Participate in supplier meetings, design reviews, FATs, site activities and commissioning.
- Track open technical actions and ensure they are driven to closure.

- Contribute to project planning, risk management, budget management, and technical decision-making.
- Optimize the CAPEX and the OPEX of the technology and/or specific project configurations.

Profile:

- 3–5 years of experience in process engineering, project engineering or a related industrial engineering role.
- Master's degree in chemical engineering, process engineering, mechanical engineering or equivalent.
- Experience in a complex industrial environment such as chemical/process industry, energy, manufacturing, industrial equipment, EPC/EPCM, pharma/biotech or similar.
- Solid understanding of process engineering fundamentals.
- Experience with PFDs, P&IDs, equipment specifications and multidisciplinary engineering.
- Strong analytical and problem-solving skills.
- Able to work independently while knowing when to seek input from more experienced engineers.
- Structured, rigorous and hands-on approach.
- Comfortable working across disciplines and with external suppliers.
- Good communication skills and professional fluency in English.
- Solutions-oriented and results-oriented
- Willingness to travel occasionally to suppliers, construction sites and project locations.

What you will get to do

This role is ideal for an engineer who wants to go beyond pure process design and gain end-to-end exposure to the development of industrial technology from process calculations and engineering decisions to equipment procurement, construction, commissioning and operation.

You will have the opportunity to take increasing ownership of technical topics and projects as the company scales.

How to Apply: please send your resume to alicia.marin-perez@arkcapturesolutions.com