



<b>Position:</b>	Process Engineer
<b>Company:</b>	Carbon Clean Solutions Limited (CCSL)
<b>Location:</b>	Sheffield, UK
<b>Reports To:</b>	CTO / Engineering Director
<b>Income Range:</b>	Competitive
<b>Benefits:</b>	Medical and pension
<b>Bonus:</b>	Potential for cash and or stock incentive bonus
<b>Travel:</b>	~30% (EU) with opportunity for travel to USA and Asia

#### **Company Description:**

Carbon Clean Solutions Limited (CCSL) is an innovation leader in carbon dioxide (CO<sub>2</sub>) separation technology for industrial and gas treating applications. Our step-change technology significantly reduces the costs and environmental impacts over existing CO<sub>2</sub> separation techniques. With 39 operating plants using CCSL's patented technology and one large scale carbon capture and utilisation plant operating in India, we aim to get to \$50 million in sales in 5 years. Having closed an investment of \$16 million from investors like WAVE Equity Partners, Chevron Technology Ventures and Marubeni Corporation, we are all set to grow exponentially and build an amazing team. More about us: [www.carboncleansolutions.com](http://www.carboncleansolutions.com)

CCSL is looking to expand our technical operations in EU by deploying carbon separation technology into more industrial and research facilities. To date, the company has a number of active global projects and requires an experienced process engineer to coordinate technical and program deliverables, particularly with project partners in EU. We also require a technical liaison to facilitate successful outreach of our technology to a wider slate of industry partners for commercial opportunities.

#### **Position Description:**

The process engineer will be responsible for managing active projects in the EU. The responsibilities will include:

- **Program management** of active pilot demonstration tests to validate technology performance in various industries.



- **Process simulation** and process support by developing gas treating simulations in ProTreat, ProMax and Aspen software and communicating PFD's, process summaries, and equipment sizing to end-users and EPCs.
- **Technical Sales Support** by coordinating technical deliverables with end-users, equipment manufacturers, and EPC's.
- **Specification of process equipment** and vendor facilitation to support integration of CCSL technology into greenfield plants and retrofits.
- **Start-up management and Field Support** for CCS drop-in solvent sales and new greenfield facilities.
- **Field Plant Optimization** of gas treating facilities to define operating cost reductions related to carbon separations.
- **Technical Liaison** to position CCSL solutions with end-users and EPCs.
- **Technoeconomic benchmarking** of CCSL solutions versus competition to refine value propositions and introduce new products to market.

The process engineer will support the European Sales Manager to deploy technology and carbon separation consumables ("solvents") into EU. The position requires a strong technical foundation to manage projects and a flexible attitude to work with external parties including EPCs, equipment suppliers, and industrial end-users.

The technical portion of the role will require to develop process simulations and basic equipment designs of carbon separation plants used for gas separation in software including ProTreat®, ProMax® and Aspen/Hysis. The process engineer will be responsible for communicating directly with external partners to provide technical guidance and deliverables. Additionally, the role will need to support technoeconomic performance comparisons of CCSL's solutions versus alternative technologies such as membranes and adsorption systems. The role will require on going interaction with end-users, equipment suppliers, and EPCs for full cycle project development, spanning concept to design to fabrication and operations.

The initial focus (0-12 months) of the position will be to manage active projects and programs in the EU. Secondly the role will provide technical support for the deployment of CCSL's technology with end users and supply chain partners. This will include managing technical sales inquiries, developing process simulations and recommendations on process and equipment designs and working directly with process, project, and facilities' engineers.

The opportunity is best suited for an individual with a strong technical background who aspires to grow into engineering domain/operations role.

#### **Requirements:**

- B.S. in Chemical Engineering or physical science (chemistry, physics)
- Comprehensive experience working within engineering



- 5 years+ total full-time work experience
- Experience in managing projects and/or programs with research and industrial partners
- High technical fluency with ability to communicate effectively both verbally and written
- Knowledge of gas separation technologies used in gas processing, gasification, carbon capture, or industrial gas processes
- Hands-on experience with start-ups and trouble-shooting of industrial plants
- Comfort in working directly with operations, engineering, and project management functions at both owner-operators and engineering companies
- Ability to learn one of the following simulation tools: ProMax, ProTreat, or Aspen process for modeling of gas separation systems
- Ability to work effectively in a small, developing, and entrepreneurial organization; high level of flexibility and adaptability required
- Strong relationship building skills, especially building relationships remotely
- Agile and hands-on approach to managing technical customer inquiries
- Ability to travel at least 20% including travel to carbon capture and other industrial sites
- Fluency in English and German; other languages (i.e. Spanish, Dutch) a plus

### **Why Carbon Clean Solutions (CCSL)?**

CCSL is a small and growing company with a commitment to helping decarbonise industry with better technology. We offer candidates the opportunity to generate breakthrough results in Green/Clean Tech while immediately serving as a critical member of a growing and entrepreneurial team.

If you are interested in learning more, please contact the following and include your resume and cover note:

Rosie de Courcy Robinson  
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