



Action Renewables

Job Description & Person Specification

Vacancy: Chemical Engineer/Chemist/Biochemist

Reporting to: Head of Business Development

Location: Belfast

Who we are:

Established in 2003, Action Renewables is a leading provider of renewable energy expertise. We are a registered charity and a company limited by guarantee. Our vision is to support a world which recognises the climate emergency and to take measures to prevent and mitigate against those impacts, through using renewable energy, energy efficiency, renewable transport, and renewable products.

Our activities are principally financed from the trading functions of our subsidiaries, particularly Action Renewables Energy Trading (ARET) Ltd. ARET is a private company, and a wholly owned subsidiary of Action Renewables. We will grow ARET to create jobs and create wealth for the charity to allow it to fulfil its charitable objectives. We will always explore new trading activities, aligned to our vision, mission and our charitable objectives. We also develop and engage in European Projects.

Role Function:

This is an exciting new role within the company for a chemical engineer/chemist/ biochemist who will assist the Head of Business Development working on various renewable energy projects.

The ideal candidate will provide technical knowledge and expertise to analyse and assess the economic viability of existing as well as new technologies for the production of renewable fuels from multiple feedstock and chemical processes; the engineer will be proactively involved in the preparation of business plans that will ultimately lead to the Final Investment Decision stage. Skills will generally include a mixture of chemical, process engineering and familiarity with activities ranging from feasibility studies to industrial process plant operations.

Main Roles and Responsibilities:

- Engage with various technology providers and gain understanding of their products and processes.
- Evaluate the technological solutions offered and provide assessment of the available processes with particular emphasis on efficiencies, technology readiness and reliability.
- Evaluate the best economically viable opportunities by:
 - a) providing calculation of key parameters and mass balance of process to estimate production costs.
 - b) providing technical and economic evaluation of the balance of plant.



- Assist in the design of plant and process equipment layout during the front-end engineering design phase
- Support management in developing long term strategic goals.
- Occasionally represent the organisation at various stakeholder events
- Contribute to working groups within the organisation
- Support other teams within Action Renewables, as required
- Participate in other Action Renewables activities as demanded, from time to time

Requirements for the Role:

Essential experience and skills

- Level six qualification or equivalent in Chemical Engineering or Chemistry or Biochemical Engineering or other related disciplines
- At least 2 years' industrial chemical engineering experience gained in chemical processing sectors
- Have a strong commercial acumen
- Have excellent planning and organisational skills
- Able to demonstrate excellent verbal and written communication skills
- Demonstrable experience of report writing for business use
- Proficient in the use of Microsoft office packages, including Word, Excel, Power Point and Outlook

Desirable

- Level seven qualification or equivalent in Chemical Engineering or Chemistry or Biochemical Engineering or other related disciplines
- 5 Years' industrial chemical engineering experience in chemical processing sectors
- Knowledge of electrolytic process, catalytic chemical processes, waste to fuel processes, gasification technologies
- Knowledge of renewable energy technologies
- Knowledge of UK renewable energy regulatory requirements