

## Chemist

### Position summary

The Chemist will be a member of the team developing the chemistry of Moltex's Stable Salt Reactor (SSR) and WASTE To Stable Salts (WATSS) recycling technologies. The role offers a mix of laboratory and desktop research and development. The successful candidate will work closely with other technical disciplines and be part of an agile multidisciplinary team. This job requires effective working relationships with internal and external stakeholders, including physics, engineering, materials science and manufacturing.

This is an exciting opportunity to help develop a technology that can make a significant contribution to reducing global CO<sub>2</sub> emissions.

### What Moltex offers...

Located in Birchwood, Warrington, Moltex offers the opportunity for daily interaction with a diverse team of scientific and engineering professionals working in an agile project delivery environment. For those on board, it is going to be a demanding but rewarding journey. Other benefits include:

- Dynamic working arrangements
- Learning and development resources
- Excellent growth opportunities
- 25 days annual leave and 8 stat holidays
- Company pension scheme with options
- Free, secure onsite parking
- Close to travel networks and within walking distance of Birchwood station

### Responsibilities

The Chemist will be responsible for:

- Assisting the WATSS Senior Chemist in the verification of the proposed process, and leading specific technical work packages
- Planning and delivery of laboratory trials for the verification and validation of SSR chemistry design
- Building relationships and working with industry and academic experts to enable peer review and substantiation of results
- Supporting the design, build and operation of laboratory rigs operating at high temperature, ensuring experiments remain simple and safe
- Contributing to the delivery of identified R&D programmes
- Working on the development of models used to predict the performance of the SSR and WATSS technologies
- Providing regular progress reports on activities to the Lead Chemist and wider technical and leadership teams
- Operating analytical and inspection equipment

**Position:** Chemist

**Status:** Permanent, full-time

**Location:** Birchwood, Warrington, UK

**Reports to:** Lead Chemist

**Apply:** Please submit a resume and cover letter to [careers@moltexenergy.com](mailto:careers@moltexenergy.com) and indicate the job title in the subject line.

## Skills, qualifications & experience

- Higher degree in chemistry or chemical engineering
- Practical laboratory experience with a good understanding experimental planning, delivery and laboratory safety
- Understanding of nuclear chemistry and corrosion mechanisms
- Broad science and engineering appreciation with the ability to understand other disciplines and effectively apply this to development and design work
- Experience scheduling and time management of deadline-driven tasks within a work package
- Knowledge of the principles of nuclear reactor design would be an asset
- Experience using and applying thermodynamic modelling software would be an asset

## Behavioural skills & personality

Moltex's mission is to bring SSRs to market as quickly as possible. To achieve this, the successful candidate will need to be:

- A curious individual with the desire to understand the broader science and technical aspects of the technology
- A practical problem-solver who is driven to find simple solutions and not over-complicate design and development work
- Delivery-focused and technically strong
- An excellent team worker who integrates well with other team members so "the whole is greater than the sum of its parts" and ensures progress of the reactor design as a whole
- An adaptable and flexible individual who is comfortable in a rapidly growing and changing company

**Moltex is an equal opportunity employer.** Moltex prides itself in having a team that promotes diversity, inclusion, leadership, mindfulness, high initiative, energy and passion.