

Shielding Engineer

Position summary

The Shielding Engineer will develop and maintain radiation physics and shielding models and simulations to substantiate the safe operation of the suite of stable salt reactors. The ideal candidate will report to the Lead Physicist and collaborate effectively with other internal and external teams, including molten salt chemistry, engineering, materials science, and manufacturing.

Position: Shielding Engineer

Status: Permanent, full-time

Location: Birchwood, Warrington, UK

Reports to: Lead Physicist, UK

Apply: Please submit a resume and cover letter to careers@moltexenergy.com and indicate the job title in the subject line.

Responsibilities

- Develop and validate models and simulations
- Design shielding solutions to protect workers and the public
- Work with and building relationships with industry and academic experts to maximise input of existing knowledge and expertise into radiation physics and shielding models and simulations, and other R&D activities
- Present and substantiate radiation physics and shielding solutions to regulatory bodies and other stakeholders

Skills, qualifications & experience

- Higher degree in physics, including nuclear; PhD and/or industry experience an asset
- Knowledge of and experience in shielding modelling and simulation an asset
- Broad science and engineering appreciation, with the demonstrable ability to understand other disciplines and apply this to their design and development work.
- Knowledge of neutron transport and Monte Carlo solvers
- Knowledge of specific radiation shielding codes (e.g. ATILA, MCBEND, etc.)
- A problem solver who is driven to find simple solutions and not over-complicate development and design work
- Ability to thrive in a rapidly changing environment
- Excellent team worker and effective communicator

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 challenging and rewarding journey. Other benefits include:

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

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