

Job Description

Molten salt experimental chemist

Date: 04/07/2017

The Project:

Design and development of the Stable Salt Reactor, a simpler form of molten salt reactor using conventional reactor components. The design is at concept stage and is undergoing review by the Canadian nuclear regulators planning on near term deployment in Canada. The sole aim is to produce power at a lower cost than by fossil fuels. You will be joining a small team based with activity across the UK and Canada.

The Role:

We are seeking to employ a scientist with experience and interest in research in molten salt chemistry who has a strong practical background in molten salt experimentation. The initial focus of the position will be development and validation of a novel process for conversion of spent uranium oxide nuclear fuel into plutonium rich molten salt fuel. This process involves molten salt electrochemical reduction and molten metal/molten salt counterflow exchange. The successful candidate will also be expected to take a leading role in molten salt corrosion studies and may have the potential to become Moltex Energies lead scientist in all aspects of molten salt chemistry.

Location:

Moltex Energy is based in London but it is anticipated that the successful candidate will spend substantial time as a visiting researcher at the University of Manchester where most laboratory work will be conducted. A London location is therefore not essential. He or she will also be expected to liaise extensively with a team at Canada where development of the process using spent CANDU fuel will be demonstrated. International travel will be part of the role.

The Person:

You must share the same values as the Moltex team which have a dedication to developing a safe solution to producing clean power at a cost competitive with fossil fuels. You must be open to innovation and new ways of doing things in a stagnant industry. Excellent communication, presentation and problem solving skills are essential.

Experience Required:

The position may be suitable for candidates at the Masters or Post Doc levels with suitable practical experience in molten salt experimentation.

Duration:

Permanent, full time.

Remuneration:

Competitive