



Job Description

This form summarises the purpose of the job and lists its key tasks. It is not a definitive list of all the tasks to be undertaken as those can be varied from time to time at the discretion of the School, in consultation with the postholder.

Job title: Research Officer (Energy Economics)

Department/Centre/Institute: Grantham Research Institute on Climate Change and the Environment
Accountable to: Policy Fellow/project PI

Job Summary

This role is to work on a newly-funded EPSRC project on Plasma Assisted Thermo-CHEMICAL energy storage for Carnot batteries (PATCH) to analyse how a novel thermal energy storage can be integrated into energy systems, focusing on economic feasibility and policy barriers of using the technology to retrofit existing coal-fired plants and turn them into energy storage plants.

Duties and Responsibilities

Range of Research Activities and Responsibilities

- Analysing the economic performance of adopting a novel thermal energy storage technology to retrofit existing thermal plants.
- Applying optimisation algorithm to find the ideal storage material and technical process to improve the economic performance.
- Developing models to evaluate economic feasibility of different technical routes for enabling a 100%-renewable power system.
- Demonstrating the ability to analyse and research complex ideas, concepts or theories and applying appropriate methodologies.
- Contributing to the formulation of peer reviewed research grant proposals.
- Writing up research for publication in a variety of modes including peer reviewed journals.
- Initiating and sustaining links with external bodies to foster collaboration.
- Presenting research papers at conferences.
- Organising conferences, seminars and workshops.
- Contributing to discussion on a wide agenda of the GRI's China programme.

Activities relating to administration and management and/or School service may include:

- Playing a constructive role in the life of the Institute.
- Contribute to the planning and organising of the PATCH research programme.

All of the above subject to the contractual obligations imposed by the external funding agency and with the agreement of the grant-holder, Principal Investigator and/or Head of Centre.

Flexibility

To deliver services effectively, a degree of flexibility may be required in the duties performed in order to meet the exigencies of service. Job roles may also naturally develop over time and ongoing substantial



changes to a role will be discussed between line managers and their staff, with job descriptions updated as and when appropriate.

Equity, Diversity and Inclusion (EDI)

LSE is committed to building a diverse, equitable and truly inclusive university. All posts (and post holders) will seek to ensure diversity and inclusion, while opposing all forms of unlawful and unfair discrimination on the grounds of age, disability, gender identity, marriage and civil partnership, pregnancy and maternity, race, nationality, ethnic or national origin, religion or belief, sex and sexual orientation, or social and economic background.

Ethics Code

Posts (and post holders) are assumed to have a responsibility to act in accordance with the School's Ethics Code and to promote the principles and values that the Code enshrines. The Ethics Code clearly states that the whole LSE community, including all staff, students, and governors of LSE, are expected to act in accordance with the principles which are set out in the Code. As such you are required to read and familiarise yourself with it. The School's Effective Behaviours Framework is designed to support this Code. It sets out examples for the six behaviours that all staff are expected to demonstrate, these can be found on the following link: [click here](#)

Environmental Sustainability

The post holder is required to minimise environmental impact in the performance of the role, and actively contribute to the delivery of the LSE Environmental Policy.