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 in Algorithms and Optimization

Department: Mathematics	**Accountable to:**	Head of Department via Principal Investigator of the ScaleOpt project

Job Summary

The postholder will be a Research Officer on the ERC Starting Grant Project "ScaleOpt" working with Principal Investigator Dr László Végh. This is a band 6 fixed-term position (for one year, with the possibility of extension) based within the Department of Mathematics.

The postholder will contribute to the research objectives of the "ScaleOpt" project, by conducting substantive individual research and developing new results in the theory of algorithms and optimization. The main objectives of the project are developing new scaling methods in discrete and continuous optimization, and extending the limits of strongly polynomial computability. The postholder will develop and carry forward a coherent research strategy in their discipline which has national and international impact. They will continually update knowledge and understanding in field or specialism and translate knowledge of advances in the subject areas into research activity.

The postholder will manage their own research and administrative activities, with guidance if required. They will participate in research seminars and are expected to be regularly present throughout the work week during term-time. The postholder will also engage in student project and dissertation supervision in topics relevant to their research interests.

The post holder is responsible to the Head of the Department of Mathematics via the Principal Investigator of the grant, Dr László Végh.

Duties and Responsibilities

Range of Research Activities and Responsibilities
- Conducting research projects or programmes either independently or in a team.
- Demonstrating the ability to analyse and research complex ideas, concepts or theories and applying appropriate methodologies.
- 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 creative solutions to research challenges.

Activities relating to administration and management and/or School service may include:
- Playing a constructive role in the life of the Centre/Institute/Department.

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.