



Person Specification

This form lists the essential and desirable requirements needed in order to do the job.

Applicants will be shortlisted **solely** on the extent to which they meet these requirements.

Job title: Research Officer in Algorithms and Optimisation

Department: Mathematics

Accountable to: Head of Department

Competency	Criteria	E/D
Knowledge and Experience	Successful completion (or near completion) of PhD in a discipline relevant to optimisation, such as Mathematics, Computer Science, or Operations Research by post start date.	E
	Ability to demonstrate research interests and comprehensive knowledge and experience in areas relevant to the project ScaleOpt: the theoretical foundations of discrete and continuous optimization, with a particular focus on strongly polynomial computability.	E
	Evidence of developing a body of good quality publications, in well-recognised peer reviewed outlets, through independent original research.	E
	Research expertise in some of the following topics: <ul style="list-style-type: none"> efficient algorithms for linear and convex programming, and the geometry of linear and convex programs; strongly polynomial computability; mean payoff games and tropical linear programming; polynomial-time exact and approximation algorithms for network optimization problems; market equilibrium computation. 	D
Communication	Excellent written and oral communication skills, including an ability to place one's specialist work within a broader context and to communicate research findings effectively to a range of audiences.	E
Investigation, analysis and research	Ability to analyse and research complex ideas, concepts or theories.	E



Planning and organisation	Ability to take a lead role in pursuing the activities and objectives of the research project.	E
	Evidence of good time and workload management and planning skills, setting priorities and committing to delivery within deadlines.	E
Teamwork and motivation	A commitment and demonstrated ability to work as part of a collaborative research team in assisting the smooth running of the project	D
	Ability to take responsibility for, and work independently on, specific project tasks, consulting and reporting to colleagues appropriately.	D
	A flexible and creative attitude to work.	D
	Willingness to travel within the United Kingdom, EU and beyond to conduct research and attend conferences.	D
Liaison and networking	Evidence of experience of participation in academic events.	D
	Demonstrated ability to initiate and build and maintain a collaborative network of contacts, including with external bodies.	D

E – Essential: requirements without which the job could not be done.

D – Desirable: requirements that would enable the candidate to perform the job well.