

Date: Thu, 14 Apr 2016 12:48:38 +0200

Subject: [Random] Fwd: Postdoctoral opportunity on applied

probability/stochastic modelling at Lancaster University

Postdoctoral opportunity

Ref: A1497

Research Associate in Applied Probability/Stochastic Modelling

Department of Management Science, Lancaster University

Salary range: £26,537 to £30,738

Closing Date: Tuesday 10 May 2016

Contract: Temporary (three years)

Job URL: <https://hr-jobs.lancs.ac.uk/Vacancy.aspx?ref=A1497>

Mathematical Models and Algorithms for Allocating Scarce Airport Resources (OR-MASTER) is a Programme Grant funded by the Engineering and Physical Science Research Council, UK (EPSRC) involving Lancaster University and Queen Mary University, London (QMUL). The Programme runs for six years from October 2015, with a total of GBP 2.8million funding.

At Lancaster, OR-MASTER will be undertaken by the Centre for Transport and Logistics (CENTRAL) Research (a newly established Research Centre in the Department of Management Science), and will link into existing Operational Research-related development initiatives and expertise such as: the STOR-i Doctoral Training Centre and the Lancaster Data Science Institute. Professor Konstantinos G. Zografos at Lancaster University is the Principal Investigator and overall Programme Director. Professors Kevin Glazebrook (Lancaster) and

Edmund Burke (QMUL) are the two Programme Co-Investigators. Professor Burke leads the OR-MASTER Programme at QMUL.

The Programme represents a strong partnership between academia, the air transport industry and policy makers. OR-MASTER will involve close collaboration with a host of international organisations that will support the project, providing real-world data, insights and expertise. OR-MASTER will develop new mathematical models and algorithms for solving complex, large-scale airport resource allocation problems. Our ultimate goal is to develop decision support capabilities for airport capacity allocation and management. To achieve our objectives we seek to recruit world-leading post-doctoral researchers (Research Associates) with ambition, potential and determination.

OR-MASTER is a highly collaborative Programme. Each Research Associate and PhD student working on the project at Lancaster University will have at least one other 'buddy partner' at the QMUL with whom they will collaborate, supported by visits to the partner site. RAs

and PhDs will also have opportunities to visit and collaborate with the industrial and academic organisations affiliated with the project. Research staff will

also have opportunities to guide the direction of the research, where appropriate, and to make use of the extensive opportunities for career development and advancement that this large ambitious Programme offers.

We are looking for an outstanding applied probabilistic/stochastic modeller to join the OR-MASTER team for a fixed term of three years. You will work under the direction of Professor Kevin Glazebrook to develop and analyse stochastic models to meet the programme's need for optimizing airport declared capacity and for assessing the delays experienced at airports and networks of airports. This work will require both a capacity for theoretical innovation and high level computing skills.

The main activities will include:-

- Innovative research investigation under the OR-MASTER project
- Collaborative activities with OR-MASTER affiliated

organisations and participation in project events (e.g. stakeholder workshops)

- Preparation of research papers
- Preparation and presentation of conference papers
- Other duties associated with the OR-MASTER project

Informal enquiries to Professor Kevin D. Glazebrook - email k.glazebrook@lancaster.ac.uk, tel: +44 (0)1524 592697 and Professor Konstantinos G. Zografos - email: k.zografos@lancaster.ac.uk, tel: +44 (0)1524 592384

We welcome applications from people in all diversity groups.

For further information and to apply online please click on the link

<https://hr-jobs.lancs.ac.uk/Vacancy.aspx?ref=A1497>

Lancaster University - ensuring equality of opportunity and celebrating diversity.

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