

[ABOUT LOUGHBOROUGH UNIVERSITY](#)

[MATHEMATICS EDUCATION CENTRE](#)

**SENIOR LECTURER/READER
IN MATHEMATICS EDUCATION**

JOB REF: REQ15774

NOVEMBER 2015

As part of the University's ongoing commitment to redeployment, please note that this vacancy may be withdrawn at any stage of the recruitment process if a suitable redeployee is identified.

JOB DESCRIPTION

Job Title: Senior Lecturer/Reader in Mathematics Education

Job Grade: Research, Teaching and Enterprise, Grade 8

1. Job Purpose

To take a leading role in and contribute to enhancing the research, teaching and enterprise activities of the Mathematics Education Centre within the School of Science in the research areas of Culture, Pedagogy and Identity and/or Mathematical Cognition.

Reports To: Head of the Mathematics Education Centre.

2. Duties and Responsibilities:

Teaching

- To teach and inspire undergraduate and postgraduate students in mathematics, through lectures, tutorials, seminars and other learning settings, and to undertake necessary academic duties, e.g. module and assessment design and teaching.
- To take a lead in *the teaching of mathematics to engineering students* and in providing service teaching in mathematics for other departments in the School of Science and other schools in the university.

- To contribute to the Mathematics Learning Support Centre working with existing staff and bought-in teachers to maintain and enhance this university-wide service.
- To work with other members of the Mathematics Education Centre to develop opportunities for providing specialist modules and projects for mathematics students.

Research

- To pursue a personal research programme within the field of mathematics education consistent with the research priorities of the Department (<http://www.lboro.ac.uk/departments/mec/research/>), School (<http://www.lboro.ac.uk/science/>) and the University (<http://www.lboro.ac.uk/research/>).
- To secure external research funding from appropriate funders (e.g. EPSRC, ESRC).
- To supervise and manage research projects and provide research leadership for other colleagues.
- To publish the outcomes of research in international outlets of the highest quality.
- To attend and contribute to major international conferences.
- To supervise postgraduate research students.
- To collaborate in research initiatives with colleagues in the Department, School and more widely across the University including with colleagues in the university's *Research Challenges* (<http://www.lboro.ac.uk/research/challenges/>).
- To collaborate in research initiatives with UK and overseas HEIs and other relevant bodies.

Enterprise

- To create social, cultural and economic impacts from academic, especially research, activity.
- To develop new opportunities for seeing the impact of mathematics education research in the wider world.

Related Activities and Functions

- To work in a collegiate and effective manner with relevant administrative, technical and academic staff in the School and across the University.
- To carry out in a collegiate, efficient and effective manner specific administrative roles and functions as may be reasonably required e.g. Responsible Examiner, Programme Co-ordinator, Personal Tutor, Admissions Tutor.
- To provide leadership across the MEC, School and University as requested and at own initiative.
- To promote the MEC and its activities (research, teaching and enterprise) widely to extend recognition nationally and internationally and establish fruitful associations.

- To take part in and, on occasion, act as chair of one or more committees within the University.
- To engage in training programmes in the University (e.g. through Staff Development) which are consistent with your needs and aspirations and those of the School.
- To undertake such other duties as may be reasonably requested and that are commensurate with the nature and grade of the post.

Other

All staff have a statutory responsibility to take reasonable care of themselves, others and the environment and to prevent harm by their acts or omissions. All staff are therefore required to adhere to the University's Health, Safety and Environmental Policy & Procedures.

All staff should hold a duty and commitment to observing the University's Equality & Diversity policy and procedures at all times. Duties must be carried out in accordance with relevant Equality & Diversity legislation and University policies/procedures.

MATHEMATICS EDUCATION CENTRE

PERSON SPECIFICATION

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	Essential	Desirable	Stages to be assessed
Education	An outstanding educational profile with first degree or MSc in Mathematics, Mathematics Education or a related discipline. PhD in a relevant area to the research of the MEC	Have achieved or be willing to achieve appropriate professional status (e.g., Fellowship of the HEA).	All to be assessed at stage 1
Experience	Experience of the teaching and assessment of mathematics at undergraduate or postgraduate level, particularly with regard to the mathematics education of engineering students. Demonstrably active in research consistent with current Department and University research strengths. Experience of securing major research/project funds from competitive external sources. Experience of authoring original work, in the highest quality refereed academic outlets. Experience of presenting research work at relevant international conferences. Demonstrated international esteem in research and/or developmental activity. Experience of successfully supervising the projects of taught and research students as demonstrated by primary supervision of a number of PhD student completions.	Experience and /or interest in research into the teaching and learning of mathematics of engineering students. Experience in and/or insights into leading research teams in areas consistent with current Department, School and University research strengths.	All to be assessed at stages 1 and 3

General Skills, Abilities and Knowledge	Ability and commitment to take part in module and programme development. Ability and commitment to develop an original research programme on your own initiative and to persuade others of its importance orally and on paper. Ability and commitment to take part in and, where necessary, lead research teams in developing future research strategy. Knowledge of research and enterprise funding opportunities in UK HE and understanding of how to secure funding. Ability and commitment to identify potential social, cultural and economic impacts from professional activity. Excellent communication and IT skills.		All to be assessed at stages 1, 2 and 3
Training	Willingness to undertake appropriate further training and to adopt new procedures as and when required.	Completion of a recognised training programme for academic staff.	1, 3
Other	Commitment to observing the University's Equal Opportunities policy at all times.		3

Stages in Assessment: 1. Application, 2. Presentation, 3. Interview

Conditions of Service

The appointment will be on a full-time, open-ended contract. Salary will be on £48,743 to £54,841 per annum, at a starting salary commensurate with experience and qualifications.

The appointment will be subject to the University's normal Terms and Conditions of Employment for Academic and Related staff, details of which can be found at: <http://www.lboro.ac.uk/services/hr/a-z/conditions-of-service.html>

The University is committed to enabling staff to maintain a healthy work-home balance and has a number of family-friendly policies which are available at:

<http://www.lboro.ac.uk/services/hr/a-z/family-leave-policy-and-procedure---page.html>.

We also offer an on-campus nursery with subsidised places, subsidised places at local holiday clubs and a childcare voucher scheme (further details are available at:

<http://www.lboro.ac.uk/services/hr/a-z/childcare-information---page.html>. In addition, the University is supportive, where operational needs allow, of flexible working arrangements.

We also strive to create a culture that supports equality and celebrates diversity throughout the campus. The University holds a Bronze Athena SWAN award which recognises the importance of support for women at all stages of their academic career. For further information on Athena SWAN see <http://www.lboro.ac.uk/services/hr/athena-swan>.

Informal Enquiries

Informal enquiries are welcome and should be made to Barbara Jaworski, Head of the MEC, Professor of Mathematics Education, by email at: b.jaworski@lboro.ac.uk, or by telephone on: +44 (0)1509 22 8254.

Application

The closing date for receipt of applications is **5 December 2015**.