

Research Associate in Mathematics

Job Ref: REQ210444

As part of the University's ongoing commitment to redeployment, please note that this vacancy may be withdrawn at any stage of the recruitment process if a suitable redeployee is identified.

Project Description

The Department of Mathematical Sciences has received funding for 3 Postdoctoral Research Associates to enable the best Mathematical Sciences Doctoral Students to further develop their own research ideas. Please note that due to the constraints of the funding these positions are only open to current Ph.D. students at Loughborough University.

Job Description

Job Grade: Specialist and Supporting Academic Grade 6

Job Purpose

To conduct research on an agreed project in any of the following areas:

- Analysis and PDEs
- Dynamical Systems
- Geometry and Mathematical Physics
- Linear and Nonlinear Waves
- Mathematical Modelling
- Statistics.

Job Duties

- To carry-out an agreed research project in one of the areas of mathematics listed above.
- Be responsible for conducting the day-to-day running of the project.
- To feedback on progress to the project mentor and to take advice as necessary.
- Travel to attend meetings and make presentations both within the group and to external stakeholders.
- To write research papers suitable for publication in high-quality academic journals.
- To attend and contribute to conferences.
- Where appropriate, to deliver teaching, tutorial and laboratory sessions to students.
- Engage in training programmes in the University (or elsewhere) that are consistent with the needs and aspirations of the project and those of the Department.
- Undertake other duties as may be reasonably requested and that are commensurate with the nature and grade of the post.

Points To Note

The purpose of this job description is to indicate the general level of duties and responsibility of the post. The detailed duties may vary from time to time without changing the general character or level of responsibility entailed.

Special Conditions

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.

Successful completion of probation will be dependent on attendance at the University's mandatory courses which include Respecting Diversity and, where appropriate, Recruitment and Selection.

Organisational Responsibility

Reports to the Head of Department of Mathematical Sciences.

Person Specification

Your application will be reviewed with respect to meeting the essential and desirable criteria listed below. Your application will be reviewed against the essential and desirable criteria listed below. Applicants are strongly advised to explicitly state and evidence how they meet each of the essential (and desirable) criteria in their application. Stages of assessment are as follows:

- 1 – Application
- 2 – Test/Assessment Centre/Presentation
- 3 – Interview

Essential Criteria

Area	Criteria	Stage
Experience	Background in Mathematical Sciences (not necessarily only from within Loughborough University Department of Mathematical Sciences).	1
	Authoring original work for academic journal papers, conference papers or technical reports.	1
	Experience of conducting high-quality research.	1
Skills and abilities	Excellent written and oral communication skills	1,3
	Ability to identify, construct and articulate a well-defined research project in Mathematics	1,3
	Self-motivated with ability to meet deadlines	1,3
	Excellent interpersonal, and organisational skills	1,3
	Ability to write project reports and make technical presentations to industrial and/or academic research groups as appropriate.	1,3
	Knowledge of relevant Health & Safety issues	1,3
	Demonstrate evidence of having undertaken further training	1
Training	Ph.D. at Loughborough University (to be complete by the time of starting the position).	1
Qualifications	Commitment to observing the University's Equal Opportunities policy at all times.	1,3
Other	Candidates should have agreed the project with a mentor from the Department of Mathematical Sciences.	1,3

Desirable Criteria

Area	Criteria	Stage
Experience	Developing proposals for funding from external agencies	1
	Working in a high quality academic research environment	1
	Experience of teaching and / or supervision of students in relevant areas	1
	Authoring original work, in the highest quality refereed academic journals	1
	A strong publication track record	1

Conditions of Service

The position is FULL TIME and FIXED TERM for 12 months. Salary will be on SPECIALIST AND SUPPORTING ACADEMIC RESEARCH Grade 6 (per annum, at a starting salary to be confirmed on offer of appointment). The appointment will be subject to the University's Terms and Conditions of Employment for STAFF GRADES 6 AND ABOVE, details of which can be found [here](#).

The University is committed to enabling staff to maintain a healthy work-home balance and has a number of family-friendly policies which can be found [here](#).

The University offers a wide range of employee benefits which can be found [here](#).

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, wherever possible, 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/>