

JOB DESCRIPTION

Vacancy reference:	SRF34186
Post Title:	Post-Doctoral Research Assistant (PDRA)
Grade:	Grade 6
School/Department:	Department of Mathematics and Statistics
Reports to:	Rachel Newton
Responsible for:	N/A

Purpose

The postdoctoral research assistants will work with Rachel Newton on the UKRI-funded project 'Diophantine equations and local-global principles: into the wild'. The project spans several topics including Brauer groups, Brauer-Manin obstructions, and the frequency of failure of local-global principles in families of varieties and number fields. It also includes applications of p -adic geometry to the study of Brauer-Manin obstructions and rational points on varieties. The postdoctoral research assistants will contribute to appropriate strands of the project according to their background and interests. Those interests may be in arithmetic geometry, analytic number theory and/or arithmetic statistics.

Main duties and responsibilities

Research:

- Undertake research in number theory
- Write papers for publication in leading mathematics journals
- Disseminate research findings and participate in national and international conferences
- Contribute to number theory activities within the department, such as the Number Theory Study Group

Supervision received

The post-holders will be supervised by Rachel Newton and will also benefit from interactions with other members of the number theory group at Reading, including Chris Daw and Titus Hilberdink.

Contact

Department of Mathematics and Statistics, University of Reading

Terms and conditions

Fulltime (35 hours per week) fixed term (up to 36 months).

This document outlines the duties required for the time being of the post to indicate the level of responsibility. It is not a comprehensive or exhaustive list and the line manager may vary duties from time to time which do not change the general character of the job or the level of responsibility entailed.

Date assessed:

PERSON SPECIFICATION

Job Title	School/Department
Postdoctoral Research Assistant	Department of Mathematics and Statistics

Criteria	Essential	Desirable
Skills Required	<ul style="list-style-type: none"> • Excellent analytical and problem-solving skills • Ability to communicate effectively, both orally and in writing 	
Attainment	<ul style="list-style-type: none"> • PhD (or soon to obtain PhD) in number theory • A good honours degree in mathematics • Appropriate publication record for career level 	
Knowledge	<ul style="list-style-type: none"> • Strong background in an area of number theory that is relevant to the project, and an interest in rational points on varieties, local global principles and/or arithmetic statistics 	<ul style="list-style-type: none"> • Strong background in one of the following areas: p-adic geometry, analytic number theory, arithmetic statistics
Disposition	<ul style="list-style-type: none"> • Enjoyment of working both independently and collaboratively 	

Completed by: Rachel Newton	Date: 10/12/2020
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