

## Post Description

Post	Research Assistant	Position no:	14617-1
College / Directorate / Institute	College of Engineering, Design and Physical Sciences Department of Mathematics		
Grade	R1		
Contract type	Fixed term 4 months		
Full time/Part time	Full time		
Accountable to	Dr Anne-Sophie Kaloghiros		
Reports	N/A		
Internal stakeholders	Line manager, PhD student in Algebraic Geometry		
External stakeholders	Academics in Algebraic Geometry		
Date reviewed	June 2024		

**Main accountabilities:** Engage with research in Algebraic Geometry.

### Key duties and responsibilities:

1. The Research Assistant will contribute to Dr A.-S. Kaloghiros's project "The Calabi problem for smooth Fano threefolds" funded by EPSRC Standard grant EP/V056689/1.
2. The Research Assistant will interact with other participants of that project. The successful candidate will conduct research in Algebraic Geometry, interact with PhD students in Geometry and academics at Brunel, and take part to Algebraic Geometry seminars and workshops in the London area.
3. The successful candidate will be encouraged to pursue their own research agenda. Expertise in one (or more) of the following areas is essential: birational geometry, explicit geometry of Fano 3-folds, K-stability, moduli theory, foliations.
4. The position will help sustain a vibrant research environment in Mathematics at Brunel.

### Post Profile

- Acquiring and interpreting research data and results

### Management of Staff and Students (Responsibilities and Accountability)

- To provide appropriate advice to staff and students on their research area or research methodologies

### Effective Behaviours

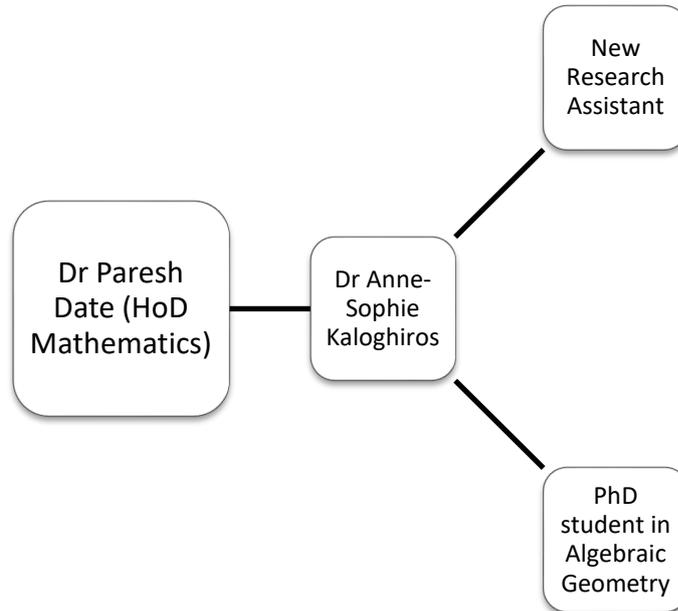
- Timeliness
- Meeting Deadlines
- Communication and Networking
- Networking group across colleges
- Ability to negotiate and influence
- Ability to plan and organise own workload
- Ability to adapt to a flexible approach to the demands of a busy college/department in order to accommodate changes in priorities when required

### **University Employment Policy:**

1. Undertake any other reasonable duties as required and commensurate with the grade of post.
2. Adhere to and comply with the provisions of the Data Protection Act and the Health and Safety at Work Act in accordance with University policies.
3. Undertake all duties and responsibilities in compliance with the rules and regulations encompassing equal opportunities to help foster a diverse workforce.
4. Adhere, comply and work in accordance with University and Departmental policies, procedures and codes of conduct.
5. Promote the University's Environmental Policy and demonstrate commitment to it through actions and decision making.
6. Actively participate in on-going professional development activities as requested

**Organisational Chart**

The organisational chart comprises of the role, the manager of the role and any direct reports to the role.



Disabled applicants meeting the Essential criterion will be guaranteed an interview as part of the University's commitment to the Disability Confident Scheme.



## Person Specification

Attributes	Criteria	Essential /Desirable	How measured
Education, qualifications & training	A degree or equivalent – (appropriate for PhD registration)	E	Application form
Experience	Details of previous employment/research and/or academic achievements applicable to the post over the past 2 years	E	Application form, Interview
	Evidence of IT literacy including Excel and database	E	Application form, Interview
Knowledge Skills & Abilities	Evidence of current knowledge in the subject area	E	Application form, Interview
	Demonstrate ability in acquiring and Interpreting research data and results	E	Application form, Interview
	Ability to compile reports and give/participate in academic presentations	E	Application form, Interview
	Ability to draft research papers for Publication in appropriate academic journals	E	Application form, Interview
Additional Requirements (not included above)			

### Job Hazard Assessment

Any identified hazards have undergone appropriate Risk Assessments.

Please tick all relevant workplace hazards identified with this post.				
Currently the University, as a minimum runs Health Surveillance programmes for staff working with skin and respiratory sensitisers, Biological Agents Class 2 and above and GMOs.				
Display screen equipment <input type="checkbox"/>	Manual handling <input type="checkbox"/>	Prolonged standing e.g. 1 hour plus <input type="checkbox"/>	Prolonged sitting e.g. 1 hour plus <input type="checkbox"/>	
Biological agents: Class 2 and above and GMO Class 1 <input type="checkbox"/>	Human blood, tissue or fluids <input type="checkbox"/>	Respiratory sensitisers or laboratory allergens e.g. animals <input type="checkbox"/>	Skin Irritants/Chemicals <input type="checkbox"/>	
Work in confined Places <input type="checkbox"/>	Ionising radiation <input type="checkbox"/>	Noise (more than 80 dba-8 hrs. law) <input type="checkbox"/>	Lone working <input type="checkbox"/>	
Use of dangerous machinery <input type="checkbox"/>	Electrical hazards <input type="checkbox"/>	Shift work/night work <input type="checkbox"/>	Work outdoors <input type="checkbox"/>	
Neck & arm vibrating equipment <input type="checkbox"/>	Fork lift truck driving <input type="checkbox"/>	Work at heights <input type="checkbox"/>	Lasers <input type="checkbox"/>	
Any other hazards (e.g. food handling) please specify and ensure that appropriate guidance has been received from the Health & Safety office:				
Physical demands of the job	Lifting <input type="checkbox"/>	Carrying <input type="checkbox"/>	Bending <input type="checkbox"/>	Pushing <input type="checkbox"/>
If lifting/carrying duties expected, please give details of heights/weight load(s) the individual is expected to lift/carry and frequency:				
Travel/Off-site working:	% of time	UK <input type="checkbox"/>	Overseas <input type="checkbox"/>	
Driving for work:	None <input type="checkbox"/>	Occasionally <input type="checkbox"/>	Weekly <input type="checkbox"/>	Daily <input type="checkbox"/>
Management responsibility:	Supervisor <input type="checkbox"/>		Non-supervisory <input checked="" type="checkbox"/>	
Hours of work:	Full time <input checked="" type="checkbox"/>		Part time <input type="checkbox"/> hours	
Non-standard contractual hours? (evenings/weekends) Night work Frequency, number of hours, type of work outside standard hours:				
Other – including occasional or possible work hazards (please specify nature and frequency):				