

## Post Description

Position	Research Fellow	Position no:	14617-1
College / Directorate / Institute	College of Engineering, Design and Physical Sciences Department of Mathematics and Physical Sciences		
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:

### Key duties and responsibilities:

1. The Research Fellow 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 Fellow 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

- Production of independent original research
- Take initiative in the planning of research

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

- Provide guidance to staff and students and to direct work of small research team including Research Assistants and Technicians

### Effective Behaviours

- Timeliness
- Meeting Deadlines
- Communication and Networking
- Networking group across colleges

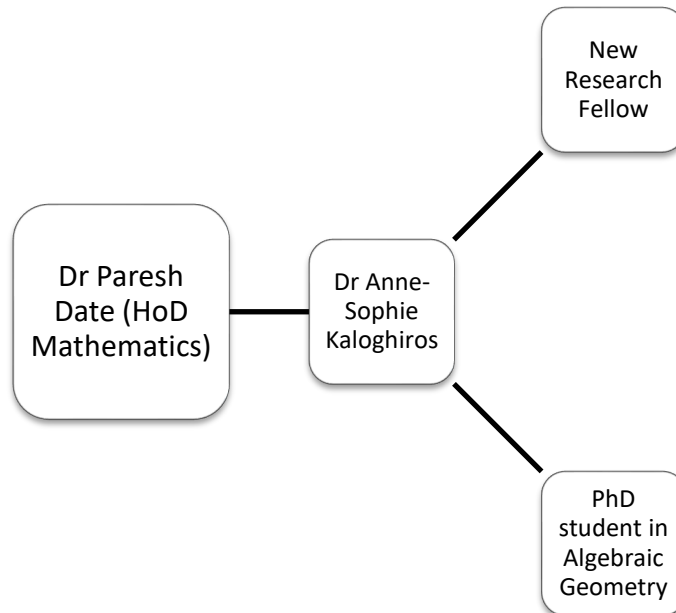
- Ability to negotiate and influence
- Ability to plan and organise own workload
- Ability to adapt to a flexible approach to the demands of a busy college/department in order to accommodate changes in priorities when required

**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	<p>PhD in Algebraic Geometry  <b>OR</b>            Attained equivalent research, industrial or commercial experience. (Minimum 4 years).</p> <p>Evidence of research attainments including examples of written contributions in academic publications/journals.</p>	<p>E</p> <p>E</p>	<p>Application form</p>
Experience	<p>Evidence of IT literacy including Excel and databases.</p> <p>Provide evidence of independent, original research.</p> <p>Experience of organising and supervising a project team</p> <p>Proven experience of planning research, preparing research proposals and negotiating contracts with little supervision.</p> <p>Proven experience of research in Algebraic Geometry</p>	<p>E</p> <p>E</p> <p>E</p> <p>E</p> <p>E</p>	<p>Application form, Interview</p> <p>Application form, Interview</p> <p>Application form, Interview</p> <p>Application form, Interview</p> <p>Application form, Interview</p>
Knowledge Skills & Abilities	<p>Good communication skills both verbal and written – particularly when demonstrating the results of own research to both specialists and non-specialists.</p> <p>Ability to draft research papers for Publication in appropriate Academic Journals.</p> <p>Ability to work largely on own initiative with minimum supervision.</p> <p>Ability to give presentations at academic/non-academic conferences and meetings</p>	<p>E</p> <p>E</p> <p>E</p> <p>E</p>	<p>Application form, Interview</p> <p>Application form, Interview</p> <p>Application form, Interview</p> <p>Application form, Interview</p>
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 checked="" 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):				