

Candidate Information

Position: Research Fellow
School/Department: School of Mathematics and Physics
Reference: 26/113651
Closing Date: Monday 12 October 2026
Salary: £42,972 - £51,270 per annum
Anticipated Interview Date: Wednesday 4 November 2026
Duration: Fixed Term - Full Time; Available for approximately 3 years

JOB PURPOSE:

To work with Scott Balchin on the EPSRC funded project "Point-free methods in tensor-triangular geometry."

This EPSRC funded research project aims to use tools coming from point-free topology (i.e., the theory of frames and lattices) to tackle questions arising in tensor-triangular geometry. There is a particular focus on computing specific examples arising from stable equivariant homotopy theory, commutative algebra, and representation theory.

MAJOR DUTIES:

1. Undertake individual and collaborative research in the realms of the project proposal.
2. Write up results of own work and contribute to the production of publications consistent with project aims and commensurate with career stage.
3. Present regular progress reports on research both internally and externally to disseminate the results of the research.
4. Undertake supplementary duties relevant to the success of the project including additional training and development activities as required.

ESSENTIAL CRITERIA:

1. PhD or equivalent in Mathematics, either received or expected submission before the beginning of the appointment. This qualification should be in a field relevant to the project (e.g., tensor-triangular geometry, homotopy theory, commutative algebra, or point-free topology).
2. Specific, relevant research experience in one or more of the following:
 - tensor-triangular geometry
 - homotopy theory
 - commutative algebra
 - point-free topology
3. The ability to develop and deliver high quality research to be published in peer reviewed journals in fields relevant to the project as per above.
4. Ability to work both independently and collaboratively on research projects.
5. Ability to communicate complex information in English effectively in oral and written format.
6. Ability to build relationships to develop internal and external networks.
7. Commitment to continuous professional development.

DESIRABLE CRITERIA:

1. Research published in leading internationally recognised peer reviewed journals.
2. Engagement with the wider mathematical community, including organising seminars and conferences.
3. Experience with presenting at conferences, both nationally and internationally.