

Research Associate in Combinatorics

Department	Computer and Information Sciences (www.strath.ac.uk/cis/)		
Faculty	Faculty of Science (www.strath.ac.uk/science/)		
Staff Category	Research	Reference No	22019
Reports To	Professor Einar Steingrímsson	Grade:	7
Salary Range:	£30,434	Contract Type:	Fixed Term (3 years)
FTE:	1	Closing Date	Thursday, 20 August 2015

Job Advert

Applications are invited for a Research Associate to work under the supervision of Prof Einar Steingrímsson on the EPSRC grant "The Möbius function of the poset of permutations". Research on this topic has been ongoing for the last decade or so, mostly in the last five years. For the state of the art, and references to further work, see for example the following papers:

<http://arxiv.org/abs/1305.5569>, <http://arxiv.org/abs/1506.04406>

Your broad objective is to work with the PI to extend and deepen the known results in this area. You will have suitable research experience in Algebraic/Topological Combinatorics as witnessed by high quality publications or preprints. You must also have programming experience, as the work will require writing code and using mathematical software systems such as SAGE.

Job Description

Brief Outline of Job:

To undertake a specific EPSRC research project under the general guidance of Professor Steingrímsson; to establish a personal research portfolio and plan research proposals, with assistance from senior colleagues as required; to write papers and present the results, and participate in conferences relevant to the work; to engage where required in relevant teaching, professional and knowledge exchange activities; and input to administrative activities.

Main Activities/Responsibilities:

1.	Conduct research in the area of the EPSRC grant proposal. Develop research objectives and proposals for own or joint research goals and implement them.
2.	Plan and manage own workload, with guidance as required.
3.	Conduct individual and/or collaborative research, including determining appropriate research methods and contributing to the development of new research methods.
4.	Identify sources of funding and contribute to the securing of funds for research, including drafting grant proposals and planning for future proposals.

5.	Write up research work for publication in journals and conference proceedings.
6.	Present research at national and international conferences and seminars.
7.	Contribute in a developing capacity to Department/School, Faculty and/or University administrative and management functions and committees.
8.	Engage in continuous professional development.

Person Specification

Educational and/or Professional Qualifications

(E=Essential, i.e. a candidate must meet all essential criteria to be considered for selection, D=Desirable)

E1 PhD in Mathematics/Computer Science or equivalent research experience.

Experience

E2 Breadth and depth of knowledge in algebraic/topological combinatorics.

E3 Ability to write computer programs in some language such as Java, C, Haskell.

Job Related Skills and Achievements

E4 Ability to conduct individual research work and programmes.

E5 Good interpersonal and communication skills, with the ability to listen, engage and persuade, and to present complex information in an accessible way to a range of audiences.

Personal Attributes

E6 Ability to plan and organise own workload effectively.

E7 Ability to work within a team environment.

Application Procedure

Applicants are required to complete an application form including the name of three referees who will be contacted before interview without permission, unless you indicate that you would prefer otherwise. Applicants should also submit a Curriculum Vitae and a covering letter detailing the knowledge, skills and experience you think make you the right candidate for the job. Applicants should also complete the Equal Opportunities Monitoring Form.

Other Information

Further information on the application process and working at Strathclyde can be found on our website (<http://www.strath.ac.uk/hr/workforus>).

Informal enquiries about the post can be directed to Professor Einar Steingrímsson, (eyar.steingrimsson@strath.ac.uk).

Probation

Where applicable, the successful applicant will be required to serve a 9 month probationary period.

Pension

The successful applicant will be eligible to join the Universities' Superannuation Scheme. Further information regarding this scheme is available from [Payroll and Pensions](#).

Relocation

Where applicable, the University offers a relocation package to support new employees who meet the eligibility criteria. The relocation package is offered as a contribution towards costs incurred, and is designed to be flexible, allowing staff to use the financial support available in the way that will be most helpful to them. Further details are outlined in the Relocation Policy.

Interviews

Formal interviews for this post will be held on Monday, 7 September 2015.

Equality and Diversity

We value diversity and welcome applications from all sections of the community.

The University currently holds a Bronze Athena SWAN award, recognising our commitment to advancing women's careers in science, technology, engineering, maths and medicine (STEMM) employment in academia.

