

E20387

Lord Kelvin Adam / Smith Research Fellowships - Data Science

COLLEGE OF SCIENCE & ENGINEERING

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Research And Teaching

7/8

Lord Kelvin Adam Smith Research Fellowships - Data Science

To support the growth of its global reputation for world-changing research, the University of Glasgow is investing in the recruitment of outstanding early career researchers to its Lord Kelvin Adam Smith (LKAS) Research Fellowships.

Our flagship LKAS Fellowship Scheme was established in 2006 to enable the recruitment of outstanding researchers who are in the early stages of their careers and are on a trajectory to become leaders in their chosen field. The scheme offers Fellows the opportunity to establish or further develop an independent research career.

The College of Science & Engineering is seeking to appoint a number of LKAS Research Fellows in the field of Data Science. The successful applicants will undertake research in fundamental Data Science and/or novel applications of Data Science. This research may be interdisciplinary in nature, should be centred within Science and Engineering (including Computing Science, Mathematics & Statistics, Engineering, Physics & Astronomy, Chemistry, Geographical & Earth Sciences) and should build on our existing research strengths.

In addition to completing the online application form, you will also be required to complete a separate application document, to be appended to your cover letter.

Job Purpose

To develop, conduct and publish research in the chosen field; to take the lead or work in collaboration with colleagues, including management of the research programme; to develop and submit research funding applications; and to conduct and publish research in high impact peer-reviewed international journals or other high-quality venues.

Hereafter in this job description, the products of research are referred to as 'publications'; however, this term applies equally to other research outputs, as appropriate to the discipline. In addition to printed academic work, research outputs may include, but are not limited to: new materials, devices, images, artefacts, products and buildings; confidential or technical reports; intellectual property, whether in patents or other forms; performances, exhibits or events; work published in non-print media.

Main Duties and Responsibilities

To develop, conduct and manage the research programme including establishing and maintaining external collaborations both nationally and internationally.

To undertake internationally excellent research in terms of originality, significance and rigour and to design and produce appropriate research methods and research plans to carry out the research programme.

To develop a track record of publications of internationally excellent standard in peer reviewed journals or other venues of the highest quality and esteem, with evidence of one or more publications of world leading quality (equivalent to 4* rating in UK REF2014) since 1 January 2014.

To work towards selection for submission to future REF exercises, by developing independence of research either by leading on a significant research project or by gaining funding as Principal Investigator and by producing a sufficient volume of publications of the appropriate quality.

To present research findings at high profile, national and international conferences, seminars and meetings to raise the profile of the research and the University.

To contribute to the development, both independently and in collaboration with others (including external partners), of further bids for external research funding to enhance the University's national and international research profile.

To keep up to date with developments in the subject area in order to provide advice and guidance on key developments to other staff and students.

To engage in academic activities in accordance with University and College strategies, including participating in the promotion of the value and impact of research to the public, policy makers and funders.

To determine the direction of the research programme to ensure that it remains at the forefront of the field.

To participate in College research group activities and/or cross-College research activities.

To contribute to the effective management and administration of the School / Institute where appropriate and as assigned by the Head of School / Research Institute Director.

To be proactive in the management of career progression including taking advantage of the University's training and mentorship programmes.

To contribute, in a developing capacity, to modest teaching activities and associated administrative duties as agreed with the Head of School / Research Institute Director and in consultation with the Line Manager.

For appointment to GRADE 8 also:

To take the lead in the management and development, planning and delivery of research plans.

To play a leading role in establishing and maintaining external collaborations, both nationally and internationally.

To take the lead in identifying opportunities and drafting applications and securing research funding.

To sustain an extensive track record of publications of internationally excellent standard in peer reviewed journals or other venues of the highest quality and esteem, with evidence of publications of world leading quality (equivalent to 4* rating in UK REF2014) since 1 January 2014.

To build on an established record of publications suitable for selection for submission to future REF exercises, by demonstrating independence of research either by leading on a significant research project or by gaining funding - as Principal Investigator, where possible - and by producing a sufficient volume of publications of the appropriate quality.

To supervise postgraduate Masters students and act as co-supervisor to PhD students, as agreed by the Head of School / Research Institute Director.

Knowledge, Qualifications, Skills and Experience

Essential

A1 Good first degree and PhD in relevant subject.

A2 Up to date knowledge of research issues and insight into future directions within subject related areas.

A3 Extensive theoretical and practical knowledge in research related field.

Skills

Essential

C1 Capacity to develop an independent research programme.

C2 Evidenced capacity for innovative research.

C3 Excellent interpersonal oral and written communication skills including presenting skills.

C4 High level of skills in quantitative/qualitative research methods, as appropriate to the project.

C5 Project management skills, including planning and management of research, time, budget and personnel, as appropriate.

C6 Ability to work independently and as part of a team as both team leader and participant.

For appointment at Grade 8

C7 Track record of published research and successful grant applications.

C8 Ability to make strategic decisions, using both intuitive and analytical thinking, and the ability to plan for contingencies.

Experience

Essential

E1 Typically 5 years' research experience in related subject, with at least 2 years' experience at postdoctoral level (or equivalent experience).

E2 Extensive research experience of at least three or more years gained in a relevant work setting or research training environment.

E3 Strong track record of publications, demonstrating potential for a high quality submission of publications to the REF or equivalent, including one or more world-leading research publications (equivalent to 4* rating in UK REF2014) since 1 January 2014.

E4 Potential to develop funded research projects.

For appointment at Grade 8

E5 At least 3 years' postdoctoral research experience (or equivalent).

E6 Experience of applying for and securing grant funding.

E7 An established record of high quality research publications in appropriate venues.

E8 Reputation in an internationally competitive research area.

Job Features

Dimensions

Producing original and innovative research in the chosen field, developing and maintaining research plans and activities.

Producing research publications or other outputs of international standard.

To contribute, in a developing capacity, to modest teaching activities and associated administrative duties as agreed with the Head of School / Research Institute Director and in

consultation with the Line Manager.

Planning and Organising

Self-generation of work through research.

Effective organisational skills to manage time and prioritise as appropriate research, administrative and any other related duties.

Requirement to be responsive with respect to funding opportunities.

Planning of publications prior to conferences.

Decision Making

Project direction: day-to-day decisions to prioritise work.

Publication of results: when and in which journal or venue.

Selection of conferences; seminars and meetings to attend.

Prioritising research and academic activities within time and budget constraints.

Internal/External Relationships

Academic colleagues for exchange of information to facilitate effective research.

External bodies to develop and maintain collaborative partnerships in research subject area.

Peer review of academic publications, as appropriate to the discipline.

Networking with colleagues, via a variety of channels including involvement in conferences and learned societies.

Problem Solving

Analysis and interpretation of research results.

To give advice to and problem solve with other staff members as appropriate.

To resolve issues of an academic nature arising in research.

Other

Requirement to attend national and international conferences for the purposes of disseminating research results.

Standard Terms & Conditions

Each Fully Funded Fellowship will run for five years; progression to Years 4 and 5 is dependent on Fellows meeting specific performance targets as agreed at the start of the Fellowship. Salary will be on the University's Research and Teaching grades 7 or 8 (Grade 7: £35,210 - £39,610 per annum, Grade 8: - £43,266 - £50,132 per annum) or an equivalent Grade for Clinical Fellows. In addition to the salary funding, an allowance for research costs will be made at a rate of £10,000 per annum for each year of the fellowship for laboratory-based research and £5,000 per annum for each year for non-laboratory-based research.

Once in post, Fellows will be appointed a mentor from outside their immediate line management, be entitled to participate in any of the training programmes and courses offered by the School/Institute, College or University, and be required to report their Continuing Professional Development (CPD) activities as agreed with their Line Manager through the Performance and Development Review (PDR) process.

For more information, please go to www.gla.ac.uk/fellowships.

New entrants to the University will be required to serve a probationary period of 6 months.

The successful applicant will be eligible to join the Universities' Superannuation Scheme.

Further information regarding the scheme is available from the Superannuation Officer, who is also prepared to advise on questions relating to the transfer of Superannuation benefits.

Relocation assistance will be provided where appropriate.

All research and related activities, including grants, donations, clinical trials, contract research, consultancy and commercialisation are required to be managed through the University's relevant processes (e.g. contractual and financial), in accordance with the University Court's policies.

It is the University of Glasgow's mission to foster an inclusive climate, which ensures equality in our working, learning, research and teaching environment.

We strongly endorse the principles of Athena SWAN, including a supportive and flexible working environment, with commitment from all levels of the organisation in promoting gender equality.

The University of Glasgow, charity number SC004401.

Vacancy Reference: E20387 Closing Date: 26 April 2019