

University of St Andrews

School of Mathematics and Statistics

Associate Lecturer (Education Focused) in Mathematics – AO1482AC

Further Particulars for Applicants

School of Mathematics and Statistics

The School of Mathematics and Statistics is dedicated to pursuing world class research in its areas of expertise, delivering top class education to its students, and maintaining a friendly professional environment conducive to these goals. In REF2014 the School was ranked joint 11th in the UK according to GPA (3.16). 91% of our research activity was judged of 'world leading' or 'internationally excellent' standard, placing us joint 5th in the UK according to this measure. In the National Student Survey 90% of our students were overall satisfied with their course.

The main School building, the Mathematical Institute, houses staff offices, administration offices, lecture theatres, tutorial rooms, a computer class room and a staff room. The Mathematics Library is housed in the adjacent Physics building. Statistics is located in a separate building (the refurbished University Observatory) some 10 minutes walk away.

The School comprises three divisions: Pure Mathematics, Applied Mathematics and Statistics, reflecting our broad coverage of the subject and the portfolio of courses and degrees we offer. At the undergraduate level the School offers B.Sc. and M.Math. degree courses in Mathematics and Statistics with a range of specialisations, and also a great variety of joint degrees offered in collaboration with other schools. We recruit comparable proportions of Scottish, UK, EU and overseas students, all of whom come with the very highest qualifications. We teach in moderate to small classes, especially in higher level modules. Our undergraduate programmes are highly rated in all the national league tables, routinely coming within the top five in the UK and top in Scotland. For example, we were ranked 3rd in the 2017 Guardian University Guide table and 4th by the Times and Sunday Times. The School is proud of its record in teaching-research linkages: Most of our advanced (Level 5) modules reflect our research expertise and interests, and all research groups run summer research schools for undergraduates with significant numbers of takers. Our undergraduates are highly employable in a variety of professions, including a significant proportion each year who enrol for Ph.D. studies at St Andrews or elsewhere. The School also offers a variety of Masters degrees, including an MSc in Mathematics.

The appointee would join the School's Pure Mathematics Division, which currently comprises 13 academic staff and 18 PhD students.

The job description for this role is attached below.

Job Description

Job Title: Associate Lecturer (Education Focussed) in Mathematics School/Unit: Mathematics and Statistics Reporting to: Head of School Job Family: Academic Teaching Duration of Post: 12 months	Working Hours: Full time/ 36.25 hrs per week Grade/Salary Range: 6/ £32,004 per annum Reference No: AO1482AC Start Date: 15 September 2017 or as soon as possible thereafter
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Main Purpose of Role

To teach a selection of courses, to be agreed with the Head of School and Head of Pure Mathematics, and engage in relevant support activities: conducting small group tutorials, computer classroom supervision and assessment. The duties may also include teaching at summer schools and evening degree courses.

You will also be able to pursue your research agenda, and other aspects of career development.

Key Duties and Responsibilities

1. Deliver undergraduate courses, as directed by the Head of School
2. Conduct tutorials
3. Computer classroom supervision
4. Set and mark assessment for the courses taught
5. Pursue personal research

Special Requirements:

There may be a requirement for teaching outside normal working hours for an evening degree module.

Please note that this job description is not exhaustive, and the role holder may be required to undertake other relevant duties commensurate with the grading of the post. Activities may be subject to amendment over time as the role develops and/or priorities and requirements evolve.

Person Specification

This section details the attributes e.g. skills, knowledge/qualifications and competencies which are required in order to undertake the full remit of this post.

Attributes	Essential	Desirable	Means of Assessment (i.e. application form, interview, test, presentation etc)
Education & Qualifications <i>(technical, professional, academic qualifications and training required)</i>	Ph.D. in Mathematics		Application form
Experience & Knowledge <i>(examples of specific experience and knowledge sought)</i>	Experience of teaching to UG students	Proven track record of competent and enthusiastic course delivery Experience of supervision of small groups or individual students	Application form, presentation, interview
Competencies & Skills <i>(e.g. effective communication skills, initiative, flexibility, leadership etc)</i>	Communication skills necessary for teaching, and the related interactions with colleagues	Good knowledge of Python and Maple	Application form, presentation, interview

Essential Criteria – requirements without which a candidate would not be able to undertake the full remit of the role. Applicants who have not clearly demonstrated in their application that they possess the essential requirements will normally be rejected at the short listing stage.

Desirable Criteria – requirements which would be useful for the candidate to hold. When short listing, these criteria will be considered when more than one applicant meets the essential requirements.

Other Information

We encourage applicants to apply online at www.vacancies.st-andrews.ac.uk/welcome.aspx, however if you are unable to do this, please call +44 (0)1334 462571 for a paper application form.

For all applications, please quote ref: **AO1482AC**

The University is committed to equality for all, demonstrated through our working on diversity awards (ECU Athena SWAN/Race Charters; Carer Positive; LGBT Charter; and Stonewall). More details can be found at <http://www.st-andrews.ac.uk/hr/edi/diversityawards/>.

The University of St Andrews is a charity registered in Scotland (No SC013532).

Obligations as an Employee

You have a duty to carry out your work in a safe manner in order not to endanger yourself or anyone else by your acts or omissions.

You are required to comply with the University health and safety policy as it relates to your work activities, and to take appropriate action in case of an emergency.

You are required to undertake the Information Security Essentials computer-based training course and adhere to its principles alongside related University Policy and Regulations.

You are responsible for applying the University's equality and diversity policies and principles in your own area of responsibility and in your general conduct.

You have a responsibility to promote high levels of customer care within your own area of work/activities.

You should be adaptable to change, and be willing to acquire new skills and knowledge as applicable to the needs of the role.

You may, with reasonable notice, be required to work within other Schools/Units within the University of St Andrews.

You have the responsibility to engage with the University's commitment to Environmental Sustainability in order to reduce its waste, energy consumption and carbon footprint.

The University & Town

Founded in the early 15th century, St Andrews is Scotland's first university and the third oldest in the English speaking world.

Situated on the east coast of Scotland and framed by countryside, beaches and cliffs, the town of St Andrews was once the centre of the nation's political and religious life.

Today it is known around the world as the 'Home of Golf' and a vibrant academic town with a distinctively cosmopolitan feel where students and university staff account for more than 40% of the local population.

The University of St Andrews is a diverse and international community of over 11,000, comprising students and staff of over 120 nationalities. It has 8,800 students, just over 7,000 of them undergraduates, and employs approximately 2,540 staff - made up of c. 1,190 in the academic job families and c 1,350 in the non-academic job families.

St Andrews has approximately 50,000 living graduates, among them former Scottish First Minister Alex Salmond and the novelist Fay Weldon. In the last 90 years, the University has conferred around 1000 honorary degrees; notable recipients include Benjamin Franklin, Rudyard Kipling, Alexander Fleming, Iris Murdoch, James Black, Elizabeth Blackadder, Tim Berners-Lee and Hillary Clinton.

The University is one of Europe's most research intensive seats of learning. It is the top rated university in Scotland for teaching quality and student satisfaction. In the Research Excellence Framework (REF) 2014 the University was ranked top in Scotland for quality of research output and one of the UK's top 20 research universities.

St Andrews is consistently held to be one of the United Kingdom's top ten universities in university league tables compiled by The Times and The Sunday Times, The Guardian and The Complete University Guide. The University has eight times been named the top multi-faculty university in the UK in the National Student Survey – a direct reflection of the quality of teaching, assessment and facilities. In international and world rankings St Andrews scores highly for teaching quality, research, international outlook and

citations. It is established as a World Top 100 institution in annual rankings produced by QS and Times Higher Education.

Its international reputation for delivering high quality teaching and research and student satisfaction make it one of the most sought after destinations for prospective students from the UK, Europe and overseas. In 2015 the University received on average 12 applications per place. St Andrews has highly challenging academic entry requirements to attract only the most academically potent students in the Arts, Sciences, Medicine and Divinity.

The University is closely integrated with the town. The Main Library, many academic Schools and Service Units are located centrally, while the growth in research-active sciences and medicine has been accommodated at the North Haugh on the western edge of St Andrews.

As the University enters its seventh century, it is delivering a varied programme of strategic investment, including the refurbishment of its Main Library and a major investment in its collections, the opening of a research library, the development of a major arts centre and a Music Centre, the refurbishment of the Students' Union, the provision of 900 additional students beds, the relocation of professional services to purpose built accommodation and the development of a wind-farm and green energy centre to offset energy costs.