

Job title	University Lecturer/Director of Taught Postgraduate Education (DTPE)
Grade	9
Salary range	£39,992-£50,618
Staff Group	Academic
Department / Institution	Faculty of Mathematics

Role-specific information

Role Summary

This new University Lectureship post, to be held in any field covered within the Faculty of Mathematics, will be responsible for leading the operational and strategic development of Part III of the Mathematical Tripos.

Appointment to the permanent Lectureship position is subject to a probationary period of five years with appointment to the retirement age thereafter, conditional to satisfactory performance. The Director of Taught Postgraduate Education responsibilities will be for a period of five years in the first instance.

Part III is a world-famous postgraduate course which is taught primarily through an unparalleled number of lecture courses spanning all aspects of mathematics and theoretical physics, and typically attracts 160 postgraduate students per year (many from the EU and overseas) to join about 90 students who have been undergraduates in Cambridge.

The successful candidate will hold a PhD in mathematics, will have a track record of excellent research publications, and will be expected to lead and pursue a research programme of the highest standard. The candidate should also be able to demonstrate leadership in the development, management and delivery of courses or programmes.

Particular duties of the DTPE (for a period of five years in the first instance) would include:

- ensuring a balanced offering of courses with content which ensures world-class training through active, ongoing liaison with the different subject areas within the Faculty;
- leading the development of innovative provision and delivery of teaching and learning;
- maintaining and enhancing non-lecture-based teaching provision, particularly focussed on ongoing feedback to the candidates;
- coordinating the admissions process of external candidates, developing data acquisition to identify candidates who have the potential to thrive within Part III, while ensuring the maintenance of quality and numbers at a sustainable level
- developing strategies for increasing admissions of women in Part III

The DTPE will be supported by the Faculty Part III Committee and Course Directors.

As for other lectureships, applicants will be expected to investigate new areas of research and funding opportunities, and submit grant applications. They will also be required to write papers for publication, attend

conferences, network with national/international colleagues and give presentations. The successful candidate will be offered a substantially reduced teaching load to compensate for the DTPE role.

Faculty of Mathematics

The Departments of Applied Mathematics and Theoretical Physics (DAMTP) and Pure Mathematics and Mathematical Statistics (DPMMS) together constitute the Faculty of Mathematics, and are responsible for the teaching of Mathematics and its applications within the Mathematical Tripos. Over 800 undergraduate and postgraduate students are enrolled in Parts I to III (years 1 to 4) of the Mathematical Tripos. Part III is not only the 4th year of the undergraduate course, but attracts more than 150 students each year from outside Cambridge, who take it as a one-year postgraduate course, leading to a Masters degree. The Departments (including the Statistical Laboratory which is a sub-department of DPMMS) are accommodated, along with the Isaac Newton Institute for Mathematical Sciences and the Betty and Gordon Moore Library (covering mathematics, physical sciences and technology) at the Centre for Mathematical Sciences, a beautiful development west of the city centre and close to other Science Departments. The accommodation is of the highest quality and was designed by mathematicians and architects to facilitate the study of mathematics. Both DPMMS and DAMTP gained excellent quality profiles in the 2014 Research Excellence Framework. See <http://www.ref.ac.uk>

The Faculty holds an Athena SWAN Bronze award for promoting women in Science, Technology, Engineering and Medicine and supports the aims of the Charter Scheme and the LMS Good Practice Scheme in seeking to advance women's careers in the mathematical sciences. New staff are mentored and all staff are offered advice on career and promotion opportunities.

The research environment in the Faculty is very lively. Many regular seminar series meet weekly during term, and there is a steady stream of short-and long-term visitors from around the world. The proximity of the Isaac Newton Institute is a major advantage for mathematics in Cambridge. The student body is quite remarkable in size and quality, and is a privilege to teach. We admit in excess of 230 new mathematics undergraduates each year, leading to graduation after three or four years of study. First and second year lectures are generally held in the centre of Cambridge, a short distance from the CMS, while third-year lectures are held in the CMS.

Each student is admitted to the University and also to one of the Colleges (of the University). Undergraduates generally reside in their College, and are taught there by subject supervisors. Undergraduate teaching takes place during three 8/9-week terms; in the final term of the academic year, lecturing occupies the first 4 weeks, and examining the remainder. The teaching of undergraduates in small groups is an essential element of the success of mathematics education in Cambridge and is a College responsibility.

The fourth-year Masters (also known as Part III of the Mathematical Tripos course) attracts a substantial number of strong students from all parts of the world. Approximately 250 students enrol each year, the majority of whom come from outside the United Kingdom. A very wide range of graduate level courses are given; in excess of 75 this academic year ranging across the whole of Pure and Applied Mathematics, Statistics, and Theoretical Physics.

The success of Part III is attested to both by the high number of applications and enrolments, and by the exceedingly positive comments of the external examiners; for instance, last year's pure mathematics examiner (Oxford) stated 'Part III remains a world-leading programme', while the theoretical physics examiner (Durham) stated 'Part III of the Mathematical Tripos ... provides arguably the best preparation in the world for students to embark on a PhD in mathematics or theoretical physics'

Lecturers

The responsibilities of a University Lecturer are to engage in the teaching and research programmes of the Department and University as prescribed in the University Statutes, under the direction of the Head of Department. University Teaching Officers are all expected to conduct small group teaching of undergraduates and/or taught postgraduate students and, where appropriate, to contribute to directing studies for programmes within their subject area. Lecturers are expected to supervise PhD students, to apply for research grants, and to participate in administration and examining.

The usual lecturing load for a member of the Faculty is approximately two courses or 48 lectures per year, being typically, but not invariably, one undergraduate course and one Masters course. All teaching is to specialist mathematicians; there is no service teaching. The successful candidate for this role will be offered a substantially reduced teaching load to compensate for the DTPE role. These comments are to be viewed as a guide to current practice only.

Further Information about Mathematics in Cambridge

Further information about mathematics in Cambridge is available at <http://www.maths.cam.ac.uk/>.

Terms and Conditions

Location	Faculty of Mathematics, Centre for Mathematical Sciences, Wilberforce Road, Cambridge
Working pattern	Full time
Hours of work	There are no formal conditions relating to hours and times of work but you are expected to work such hours and days as are reasonably necessary for the proper performance of your duties. Your times of work should be agreed between you and your head of institution.
Length of appointment	Permanent
Probation period	Usually subject to 5 years
Annual leave	Subject to compliance with the Statutes and Ordinances relating to leave, full time officers are entitled in any holiday year to take a minimum of 5.6 weeks annual paid holiday. These periods are inclusive of public holidays that fall outside Full Term.
Pension eligibility	Universities Superannuation Scheme (USS). Pension scheme details, including information about the legal requirement for the University to automatically enrol its eligible jobholders into a qualifying workplace pension scheme from 1 March 2013, is available at: https://www.pensions.admin.cam.ac.uk/
Retirement age	For established academic and academic-related staff, the University operates a retirement age which is at the end of the academical year in which the University officer reaches the age of 67.

Screening Check Requirements

We have a legal responsibility to ensure that you have the right to work in the UK before you can start working for us. If you do not have the right to work in the UK already, any offer of employment we make to you will be conditional upon you gaining it. If you need further information, you may find the Right to Work page within the 'Applying for a job' section of the University's Job Opportunities pages helpful (please see <http://www.jobs.cam.ac.uk/right/have/>).

Application Process

This position is available from 1 September 2018, although sooner if the right candidate is available, and appointment will be to the retirement age, subject to satisfactory completion of an initial probationary period of five years. The salary is in the range £39,992-£50,618, and the post-holder will be eligible for membership of the Universities Superannuation Scheme. (Fuller details at: <https://www.pensions.admin.cam.ac.uk/>)

In exceptional circumstances, it may be possible to offer a supplement to the salary range stated for this role of up to £10,000. Any such supplement would be awarded on the basis of a demonstrable history of exceptional achievement and is entirely at the discretion of the University.

To submit an application for this vacancy, please visit: <http://www.jobs.cam.ac.uk/job/15531>, this will route you to the University's Web Recruitment System, where you will need to register an account (if you have not already) and log in before completing the online application form.

You will need to upload a one to two page cover letter addressing the DTPE person specification and your relevant experience, a full curriculum vitae, research and teaching statements, a list of publications and the contact details of three academic referees. Please ensure your referees are contactable at any time during the selection process, and are made aware that they will be contacted by the Mathematics HR Office Administrator to request that they upload a reference for you to our Web Recruitment System; and please encourage them to do so promptly.

The closing date for applications is 31st December 2017. If you have any questions about this vacancy or the application process, please contact: LE13813@maths.cam.ac.uk

General Information

The University of Cambridge

The University of Cambridge is one of the world's oldest and most successful Universities, with an outstanding reputation for academic achievement and research. It was ranked first in the 2011 QS World University Rankings and its graduates have won more Nobel Prizes than any other university in the world. The University comprises more than 150 departments, faculties, schools and other institutions, plus a central administration and 31 independent and autonomous colleges.

The University and the Colleges are linked in a complex historical relationship. The Colleges are self-governing, separate legal entities which appoint their own staff. They admit students, provide student accommodation and deliver small group teaching (supervisions). The University awards degrees and its faculties and departments provide lectures and seminars for students, determine the syllabi for teaching and conduct research.

There is much more information about the University at <http://www.cam.ac.uk/univ/works/index.html> which we hope you will find helpful.

What the University can offer you

One of our core values at the University of Cambridge is to recognise and reward our staff as our greatest asset. We realise that it's our people who have built our outstanding reputation and that we will only maintain our leading position in the academic world by continuing to attract and retain talented and motivated people. If you choose to come and work with us, you will find that we offer:

- **Excellent benefits** – You will be eligible for a wide range of competitive benefits and services, including numerous discounts on shopping, health care, financial services and public transport. We also offer defined benefits pension schemes and tax-efficient bicycle, car lease and charity-giving schemes.

We will help you balance your home and work life by providing you with generous annual leave entitlement and procedures for requesting a career break or flexible working arrangements if you need them. You will also have access to a range of well-being support services, including in-house Occupational Health and Counselling services. If you have childcare responsibilities, you may also benefit from the enhanced maternity/adoption pay, two nurseries and a holiday play scheme that we provide.

We are keen to welcome new employees from other parts of the UK and other countries to Cambridge. If you will be relocating to Cambridge on a centrally funded appointment of two years or more, you may be eligible for our relocation expenses scheme. The University Accommodation Service (<http://www.accommodation.cam.ac.uk/>) will also be available to help you find suitable rented accommodation and to provide advice on renting arrangements and local facilities, if required. In addition, certain academic and academic-related appointments are eligible for the Shared Equity Scheme which offers financial assistance with the purchase of living accommodation.

- **A welcoming and inclusive environment** - We will help you settle into your new role and working environment through a central University induction event, local induction activities and our online induction package. Where appropriate to your role, you will have a probation period to provide a supportive framework for reviewing your progress and discussing your training and development needs.

If you are relocating to Cambridge, you and your family will be welcome to attend the Newcomers and Visiting Scholars Group, which provides an opportunity to find out more about Cambridge and meet other people new to the area.

- **Extensive development opportunities** - The encouragement of career development for staff is one of the University's core values. We put this into practice through various services and initiatives, including:
 - A wide-range of training courses and online learning packages.
 - The Staff Review and Development (SRD) Scheme, which is designed to enhance work effectiveness and facilitate career development post-probation.
 - Leave for career and personal development, including long-term study leave for assistant staff and sabbatical leave for academic staff.

- The CareerStart@Cam programme, which supports assistant staff roles without higher education qualifications to develop their skills, experience and qualifications. Assistant staff may also apply for financial assistance for study which results in a qualification.
- Reduced staff fees for University of Cambridge graduate courses.
- The opportunity to attend lectures and seminars held by University departments and institutions.
- Policies and processes dedicated to the career development of researchers and the implementation of the principles of the Concordat, which have led to the University being recognised with an HR Excellence in Research Award by the European Commission.

You can find further details of the benefits, services and opportunities we offer can be found in our CAMBens Employee Benefits web pages at <http://www.hr.admin.cam.ac.uk/pay-benefits/cambens-employee-benefits>. A range of information about living and working in Cambridge is also available to you within the University's web pages at <http://www.jobs.cam.ac.uk/> and <http://www.hr.admin.cam.ac.uk/hr-staff/information-staff>.

Equality of Opportunity at the University

We are committed to a proactive approach to equality, which includes supporting and encouraging all under-represented groups, promoting an inclusive culture and valuing diversity. We make selection decisions based on personal merit and an objective assessment against the criteria required for the post. We do not treat job applicants or members of staff less favourably than one another on the grounds of sex (including gender reassignment), marital or parental status, race, ethnic or national origin, colour, disability (including HIV status), sexual orientation, religion, age or socio-economic factors.

We have various diversity networks to help us progress equality; these include the Women's Staff Network, the Disabled Staff Network, the Black and Minority Ethnic Staff Network and the Lesbian, Gay, Bisexual and Transgender Staff Network. In addition, we were ranked in the top 100 employers for lesbian, gay and bisexual (LGB) staff in Stonewall's Workplace Equality Index 2013 and we hold an Athena SWAN silver award at organisation level for promoting women in Science, Technology, Engineering and Medicine.

We are supportive of staff with caring responsibilities, such as through our flexible working, career break and returning carers schemes. We encourage individuals to include details of any breaks in employment due to caring responsibilities in applications for employment so that these can be taken into consideration in assessments made, where appropriate.

Information if you have a Disability

The University welcomes applications from individuals with disabilities and we are committed to ensuring fair treatment throughout the recruitment process. We will make adjustments to enable applicants to compete to the best of their ability wherever it is reasonable to do so, and, if successful, to assist them during their employment. Information for disabled applicants is available at <http://www.admin.cam.ac.uk/offices/hr/staff/disabled/>.

We encourage you to declare any disability that you may have, and any reasonable adjustments that you may require, in the section provided for this purpose in the application form. This will enable us to accommodate your needs throughout the process as required. However, applicants and employees may declare a disability at any time.

If you prefer to discuss any special arrangements connected with a disability, please contact, Ms Julie Bazin, who is responsible for recruitment to this position, on 01223 764289 or by email on hr-office@maths.cam.ac.uk. Alternatively, you may contact the HR Business Manager responsible for the department you are applying to via hrenquiries@admin.cam.ac.uk.