POSTDOCTORAL RESEARCH FELLOWSHIP
IN THE MATHEMATICS OF INFORMATION

The Faculty of Mathematics and the Mathematics Departments

The Faculty of Mathematics is one of the world's leading mathematics faculties with an exceptional record in research and teaching. The Mathematical Tripos is renowned as a leading undergraduate maths course. 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. 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, around half of whom come from outside the United Kingdom.

The Faculty of Mathematics is comprised of the Department of Applied Mathematics and Theoretical Physics (DAMTP) and the Department of Pure Mathematics and Mathematical Statistics (DPMMS). Together with the Isaac Newton Institute, and the Betty and Gordon Moore Library (covering mathematics, physical sciences and technology) the two departments occupy the Centre for Mathematical Sciences (CMS). The CMS is 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. It comprises offices, meeting rooms, seminar/lecture rooms, and common rooms, and is equipped with an excellent computer network. It may be viewed at https://www.dpmms.cam.ac.uk/about/photos/

The Faculty gained an excellent quality profile in the 2014 Research Excellence Framework (see: www.ref.ac.uk). It 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.

Further information about the Faculty and mathematics in Cambridge is available at:
http://www.maths.cam.ac.uk/.

The research environment in DAMTP and DPMMS 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.

Further information about the Departments may be found via the Departmental websites at:
http://www.dpmms.cam.ac.uk/ and http://www.damtp.cam.ac.uk
The Cantab Capital Institute for the Mathematics of Information

This Postdoctoral Fellowship is affiliated with the new Cantab Capital Institute for the Mathematics of Information which is hosted within DAMTP and DPMMS. It accommodates research activity on fundamental mathematical problems and methodology for understanding, analysing, processing and simulating data. Data science research performed in the Institute is at the highest international level, aiming to extract the relevant information from large- and high-dimensional data.

The Institute is a joint venture of DAMTP and DPMMS with affiliated researchers, PhD students, Post-doctoral Research Associates and academic staff from both Departments. The Institute has funding for up to six PhD studentships per year, three Post-doctoral Researchers, and a distinguished Visitor programme to invite leading researchers in Mathematics of Information. This funding is for an initial period of five years. For more information on the Institute see http://www.damtp.cam.ac.uk/user/cbs31/Moi/Welcome.html

Research Fellows

Research Fellows are expected to engage in original and innovative research within some area or areas of mathematics. If formal teaching duties are associated with a post that will be mentioned in the advertisement. However generally there is an opportunity to teach within the Master's course or at a graduate level. It is expected that Research Fellows will engage fully in research activities within the Department, and they are encouraged to participate in the running of seminar series. University Research Fellowships in DPMMS are not linked to a College but some Research Fellows successfully apply for College Fellowships. The benefits vary depending on the nature of the appointment but can include meals and subsidized accommodation. Undergraduate Colleges generally expect their Fellows to do some teaching and there would be remuneration for that. However involvement with a College is entirely voluntary and there is no guarantee of a suitable opportunity.