

THE DEEPMIND PROFESSORSHIP OF MACHINE LEARNING

DEPARTMENT OF COMPUTER SCIENCE AND TECHNOLOGY

1 The Professorship

Background

A DeepMind Professorship of Machine Learning has been established in the University from 1 January 2019 and was assigned to the Department of Computer Science and Technology.

<http://www.admin.cam.ac.uk/reporter/2017-18/weekly/6510/section5.shtml>

Selection Criteria

Candidates will be considered for the Professorship on the basis of the following selection criteria, which they should address in their application.

- An outstanding research record of international stature in modern machine learning, including neural techniques.
- The vision, leadership experience and enthusiasm to build on current strengths in maintaining and developing a leading research presence, and an established record in attracting research grant support to further this development.
- The ability to further the academic planning and strategic development of Machine Learning in the University and, where appropriate, to facilitate its development within the UK.
- The ability to manage and interact effectively with staff and students at all levels.
- An enthusiastic commitment to the recruitment, training and mentoring of the next generation of researchers, including undergraduates, research students, and postdoctoral research fellows.

Candidates will hold a PhD or equivalent postgraduate qualification.

2 Department of Computer Science and Technology

The Department of Computer Science and Technology is an academic department within the University of Cambridge that encompasses Computer Science, along with many aspects of Engineering, Technology and Mathematics. Professor Ann

Copestake <https://www.cl.cam.ac.uk/~aac10/> is the current Head of Department.

Building on its long and distinguished history as the Computer Laboratory, the Department continues with world class teaching and research. The quality of the staff and research students within the Department is key to our success and we seek to attract the best candidates in the world. One of our aims is to maintain a healthy balance of staff across and there is a drive to increase the number of women and diversity of staff in the Department.

Further information about the Department can be found at:
<https://www.cst.cam.ac.uk/>

3 Standard Duties

Teaching and PhD Students

The Department offers a three year undergraduate degree dedicated wholly to Computer Science with an optional fourth year (MEng). The MEng is similar in content to the Department's MPhil in Advanced Computer Science which is designed to prepare students for a PhD or other form of research. All programmes attract talented students from around the world, with high application numbers allowing selective admission and very high standards of attainment.

The Professor will be expected to contribute to teaching within the existing undergraduate and graduate programmes. Across the department, the average teaching load is somewhat under 30 hours of lecturing a year. This corresponds, roughly, to one undergraduate lecture course and one MPhil module, although the Department encourages co-teaching. A reduced teaching load in the first year of appointment is offered wherever possible. The Professor will also be asked to supervise Masters student projects and will be expected to contribute to teaching administration, including selecting, interviewing and advising MPhil and PhD students. Undergraduate admissions and undergraduate small group teaching ('supervisions' in Cambridge terminology) are organised by Directors of Studies employed by the Colleges (see below).

Some PhD student funding is available through the University, and PhD students are also funded via philanthropic donation (to the department or to individual supervisors) and on research grants.

Examining

The Professor will be required to undertake such university examining as may be required by the relevant Faculty Board or comparable body.

Administration

Administrative duties are shared equitably among the teaching members of the Department. The Professors are expected to play significant roles from time to time on the Faculty Board and Departmental Committees dealing with such matters as academic and other appointments and research and teaching assessments. They are also encouraged to accept appointment to University Committees.

4 The Colleges

The University, the Faculties and Departments, and the Colleges are linked in a complicated historical relationship that is mutually beneficial but not simple. Students (both graduate and undergraduate) are admitted by one of the 31 Colleges, although in the case of graduate students the Faculties and Departments determine admissions before the Colleges are involved. Almost all undergraduates, and many graduate students, live in a College. The teaching of undergraduate students is shared between the Colleges and the Faculties and Departments, with the Colleges arranging small group teaching (“supervision”) and the Departments providing lecturing, laboratory classes, and advanced supervisions. Most academic staff will also be invited to join a College as a teaching or professorial fellow. College teaching is remunerated separately from the University teaching, and appointment to a College is a separate matter from a University appointment. Membership of a College adds an important social and intellectual dimension for many of the academic staff. The Chair of the Faculty/Head of Department or senior colleagues can give more advice.

The Scheme for newly-appointed University Officers seeking a College Fellowship is set out at:

<https://www.ois.cam.ac.uk/uto-scheme/guidance-for-applicants/view>

The DeepMind Professor of Machine Learning is accompanied by the option of accepting a Professorial Fellowship at Queens’ College, for five years in the first instance. The Fellowship holder would be able to take 7 meals in College per week and would have a share of an office room in College. The Fellowship holder would have the option to supervise Computer Science undergraduates in College, but there would be no obligation to teach for the College.

5 Procedure for Appointment

The appointment will be made by a Board of Electors, chaired by the Vice-Chancellor or his Deputy, with a membership which includes members of the Faculty/Department, members of cognate Departments and external experts.

All applications will be acknowledged. The Board of Electors will decide how they wish to proceed towards making an election, which may include interviews and/or presentations. Short-listed candidates may be invited to visit the Faculty / Department to give a seminar on their work and meet prospective colleagues in the course of the process.

Candidates will be informed of the progress of their applications as agreed by the Electors.

It is anticipated that the successful candidate will take up the appointment on 1 October 2019 or as soon as possible thereafter.

6 Enquiries and Applications

Informal enquiries about this Professorship may be directed to Professor Ann Copestake, Convenor of Board of Electors: telephone +44 (0)1223 767574 or email: aac10@cam.ac.uk.

Further information on the University is available at the following address:
www.cam.ac.uk.

Applications, consisting of a letter of application together with a statement of current and future research plans, a curriculum vitae and a publications list, along with details of three referees should be made online no later than **15 April 2019**.

If you are unable to apply online, please contact the Human Resources, University Offices, The Old Schools, Cambridge, CB2 1TT (email ibise@admin.cam.ac.uk).

GENERAL INFORMATION

All appointments to University Offices are subject to the Statutes and Ordinances of the University.

A Salary

Salary on appointment will be determined by the Vice-Chancellor at the appropriate point on the University's salary spine for grade 12, taking account of the criteria for the respective contribution band. Professorial salaries are reviewed periodically, on the basis of research, teaching and general contribution, by the Vice-Chancellor with the assistance of a small Advisory Committee.

There is a normal sabbatical entitlement of one term in seven on full pay, subject to the University regulations.

B Headship of the Department

Should a Professor be appointed to the Headship of a Department, a pensionable payment in addition to salary is made.

C Recruitment Incentive

The University has a scheme whereby a single recruitment incentive payment may be made on appointment at the Vice-Chancellor's discretion.

D Removal Expenses

If the person appointed is not resident in Cambridge, a contribution from University funds towards expenditure incurred in removal to Cambridge to take up a University office will be made.

E Consultancy Work

The University's policy on consultancy work is that consultancy arrangements must be entered into privately between the employee and the organisation concerned. The consultancy work must not interfere with the duties required of the officer under the officer's contract of employment with the University. Consultancy work is not covered by the University's insurances, even when the University has knowledge that such work is being done. The University must not be regarded as being directly or indirectly involved in any consultancy arrangement through the use of University letterheads, advice given or work done in the individual's capacity as an employee of the University. Individuals undertaking private or consultancy work are advised to take out personal insurance.

Alternatively, professional indemnity cover may be obtained by channelling private work through the University company Cambridge Enterprise Ltd. Anyone wishing to do so should, in the first instance, contact Cambridge Enterprise at www.enterprise.cam.ac.uk.

F Professorial Fellowships

The great majority of Professors at Cambridge hold a professorial fellowship of a college. Although election to a fellowship is a matter for an individual college, the University takes active steps to draw to the attention of Heads of House the names of those Professors eligible for election. The Scheme for newly-appointed University Officers seeking a College Fellowship is set out at: <https://www.ois.cam.ac.uk/uto-scheme/guidance-for-applicants/view>

In seeking the views of referees, their permission will be sought for the release of their comments on the successful candidate if it were to be requested by the professorial fellowship electors of a college.

As detailed in Point 4 of the Further Particulars. The DeepMind Professorship of Machine Learning is accompanied by the option of accepting a Professorial Fellowship at Queens' College, for five years in the first instance. The Fellowship holder would be able to take 7 meals in College per week and would have a share of an office room in College. The Fellowship holder would have the option to supervise Computer Science undergraduates in College, but there would be no obligation to teach for the College.

G Health screening on appointment to University Office and in the case of University Officers undertaking a change of duties

Offers of appointment made to prospective University officers whose work will fall within certain categories are conditional on the completion of a medical questionnaire and, if necessary, on a satisfactory health check by the Occupational Health Service.

Only the person elected will be asked to complete the questionnaire at the time of election.

H Family friendly policies and benefits

The University has a range of family friendly policies to aid employee's work-life balance including maternity, paternity and parental leave, flexible working and career break schemes. In addition, childcare vouchers, access to two nurseries and a holiday play scheme are available through the Childcare Office to help support University employees with childcare responsibilities. Further information can be found at:

<http://www.admin.cam.ac.uk/offices/hr/staff/benefits/family.html>

I Eligibility to work and reside in the UK

UK immigration procedures stipulate that an employer may not consider the appointment of any person unless they have seen evidence of their immigration status. Accordingly, shortlisted candidates, whatever their nationality, will be asked to provide such evidence at an appropriate stage in the recruitment procedure.

J Equal Opportunities Information

The University of Cambridge appoints solely on merit. No applicant for an appointment in the University, or member of staff once appointed, will be treated less favourably than 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.

K Information if you have a Disability

The University welcomes applications from individuals with disabilities. Our recruitment and selection procedures follow best practice and comply with disability legislation.

The University is committed to ensuring that applicants with disabilities receive fair treatment throughout the recruitment process. Adjustments will be made, wherever reasonable to do so, to enable applicants to compete to the best of their ability and, if successful, to assist them during their employment. We encourage applicants to declare their disabilities in order that any special arrangements, particularly for the selection process, can be accommodated. Applicants or employees can declare a disability at any time.

Applicants wishing to discuss with or inform the University of any special arrangements connected with their disability can, at any point in the recruitment process, contact, Dr Gosia Wloszycka, who is responsible for the administration of the recruitment process for this position, by email on mw425@admin.cam.ac.uk