**Funded MPhil**

**Developing computational models of hearing loss**

As part of the department of Neurosciences within the University of Cambridge, we have a 1-year fully-funded MPhil position available.

The project will use computational models already developed (e.g. by Prof Ian Bruce, 1: Zeyl TJ, Bruce IC. Ear Hear. 2014;35(2):246-55 or Zilany MS, Bruce IC J Acoust Soc Am. 2006, 120(3):1446-66) to develop further the models of expected test results by measuring electrophysiology such as electrocochleography, at a group neural level. Primarily this position will involve developing new tests that might distinguish between different sites of lesion in the inner ear.

The successful candidate will work the Cambridge Ear Institute, working with psychoacousticians, electrophysiologists, and genetic hearing loss researchers.

The student will be expected to be proficient in computational modelling, a background in Matlab/Python and C is needed, and the student would develop an understanding of auditory physiology and testing. Understanding input/output functions, spectral analysis, signals, and some understanding of neurophysiology would be an asset, as would any background in auditory science.

This is a fully funded, 1-year MPhil studentship commencing 1st April 2019 that includes:

* A fee waiver equivalent to the Home/EU rates. Overseas students may apply but will need to fund the difference between the Home and Overseas fee from another source.
* A stipend at £16,777 per annum.

To be enrolled on the MPhil course, applicants should have (or expect to obtain) at least 2:1 honours degree or equivalent.

Applications should be made via the standard admissions procedure on the University's Graduate Admissions website (<http://www.graduate.study.cam.ac.uk/how-do-i-apply>) please select Easter Term 2019 as the start term.

Please include Professor Michael Coleman as the Supervisor's name on application and the reference number.

Applicants should also include their expression of interest letter in the application; this can be added to the section "Additional Information to Support Application".

Deadline for applications for this studentship is 12 noon on Monday 5th November 2018.

Interviews are likely during week commencing 19th November 2018.

Informal enquiries, including if your availability is later than April 2019, should be directed to Professor Manohar Bance on mlb59@cam.ac.uk

Any queries relating to the application process should be sent to Shannon Tinley- Browne at pgneurosci@medschl.cam.ac.uk

Please quote reference {.........} on your application and in any correspondence about this vacancy.

The University values diversity and is committed to equality of opportunity.

The University has a responsibility to ensure that all employees are eligible to live and work in the UK.