JOB DESCRIPTION

ACADEMIC CLINICAL FELLOWSHIP IN ANAESTHETICS AT ST3 LEVEL

October 2017
The Specialist Training post will be appointed at ST3 level and provide funding for up to three years. The principal aim of the ACF scheme is to allow academically gifted clinical trainees the opportunity for 25% protected research training alongside completion of intermediate training in anaesthesia and to formulate and submit an externally funded Research Training Fellowship (RTF) (e.g. MRC, Wellcome Trust, BHF). If candidates are unsuccessful in obtaining funding for a RTF/PhD, they would transfer into non-ACF ST5+ posts and pursue full time clinical sub-specially training. It is anticipated that all successful ACFs completing RTFs would be in a strong position to compete for Clinical Lecturer posts following award of their higher research degree, as per the Integrated Academic Training programme. This post will attract a NTN(A).

(The NIHR post, where Anaesthetics competes with ICM and Emergency Medicine has been awarded under the research theme ‘Acute Care’. The appointee will be expected to develop a research programme in that theme area. This condition does not apply to the x2 locally funded Anaesthetics posts).

Locality
The ACF will be based in the Eastern Region and the School of Clinical Medicine, University of Cambridge, with training based primarily at Addenbrooke’s Hospital, Cambridge. Rotation to other hospitals in the region will be undertaken as required to fulfill training needs.

Addenbrookes:
Addenbrooke’s was granted Trust status from 1 April 1993. It offers a full range of acute, maternity and mental health services, which are provided from two main hospital sites - Addenbrooke’s Hospital and Fulbourn Hospital. Community psychiatry and midwifery services form part of the service ensuring continuity for those patients who are more appropriately cared for in their own communities.

Addenbrooke’s Hospital (approx. 1100 beds) lies on the southern boundary of Cambridge city occupying a 66 acre site which is shared by the University of Cambridge School of Clinical Medicine, the Medical Research Council, the Regional Blood Transfusion Centre and the Parke Davis Research Institute. Close links with the University have given the hospital an international reputation for converting research and development into practical health care. The hospital has a long history of training first class doctors and offers excellent opportunities for training in biomedical computing, molecular biology, medical statistics, health service management as well as higher specialist training.

The Rosie Maternity Hospital (94 beds and 19 special care cots) is also located on the Addenbrooke’s site and includes the Regional Neonatal Intensive Care Unit.
Fulbourn Hospital (366 beds) is situated on the outskirts of Cambridge, approximately 3 miles from the Addenbrooke’s site. It provides the main in-patient base for general and specialised psychiatric services supplemented by out-patient and community services.

Addenbrooke’s Hospital employs over 7,000 staff and offers both a district general hospital service to a more local constituency and is a specialist referral centre for a wider catchment population. Some special services, such as bowel/liver transplantation, draw patients supra-regionally or internationally.

University of Cambridge Clinical School
The University of Cambridge has granted medical degrees since 1540. The Clinical School of the University, which was formally established in 1975, admitted its first clinical students the following year and at present admits about 130 students each year. The Clinical School has its base at Addenbrooke’s Hospital where purpose built accommodation for the school, comprising lecture theatres, seminar rooms, medical library (which includes 900 serials) and postgraduate medical centre, was opened in 1980. In addition to receiving clinical instruction at Addenbrooke’s Hospital and other hospitals in and around Cambridge, clinical students undertake part of their training in hospitals further afield in the East Anglian and neighbouring regions; they also spend short periods attached to general practices throughout East Anglia. The teaching programme is co-ordinated by the clinical dean. Cambridge is arguably the premier biomedical research centre in Europe. Over recent years four new research institutes have been built on the Addenbrookes site, which also houses the MRC laboratory of Molecular Biology. The major Clinical School departments were all top-rated in the recent research selectivity exercise.

Aims of the Academic Clinical Fellowship
The main aim of these posts is to allow individuals to be exposed to academic environments and research techniques that would inform their choice of subsequent full time research training and provide the senior academic input needed to support the submission of an externally funded RTF. As such, the research components are not constrained. For example, an individual may wish to undertake an initial project involving basic molecular and cell biology followed by periods undertaking translational and/or patient based studies. Alternatively, an individual may be interested in exploring different research techniques and/or wish to spend their entire research time working in a single research area.

The ACFs will be recruited at ST3 level, and will undergo two years of intermediate specialty training during which they will undertake modular attachments to various subspecialty areas of anaesthesia, and have the opportunity to participate in the program of studies coordinated by the Clinical Academic Training Office (CATO; http://cato.medschl.cam.ac.uk/) with the option of obtaining an MPhil in Clinical Science.

It is expected that these trainees will achieve Fellowship of the Royal College of Anaesthetists (FRCA) by passing the Final FRCA exam towards the end of their second year. Following this (typically between 18 and 24 months into their rotation) they will enter a 12 month academic module which will offer near full time research, with the clinical commitments being restricted to a maximum of one half day per week in addition to participation in the on call
rota. This academic time will be spent in acquiring research skills and pilot data in preparation for a Research Training fellowship application, which would support study for a PhD degree.

Cambridge provides an exceptional environment for biomedical research, and the areas of institutional excellence are outlined elsewhere (see http://www.medschl.cam.ac.uk/ and http://www.cuh.org.uk/research/research_index.html). The particular strengths of the University Division of Anaesthesia lie in neurosciences and critical care, and (through collaborations) we have access to world class research programs in stem cell biology, vascular biology, and transplantation. The Division is part of the Department of Medicine, which was awarded a 5* rating in the last RAE.

We have established research programs in neuroanaesthesia, consciousness and coma, and pain medicine. A substantial part of our research has used functional imaging with positron emission tomography and magnetic resonance to define clinical physiology, pathophysiology, and drug action. This work has been based in the Wolfson Brain Imaging Centre (WBIC). However, this proposal also draws on our wider research collaborations in the Cambridge biomedical research community through our participation in the Neuroscience and Genetics themes of the Cambridge NIHR Biomedical Research Centre, the MRC/Wellcome Trust Behavioral and Cognitive Neuroscience Institute and the Cambridge Centre for Brain Repair. We also have key collaborations in the MRC Laboratory for Molecular Biology, the Cambridge Institute for Medical Research, the Department of Public Health, Papworth Hospital, and the Intensive Care National Audit and Research Centre (ICNARC; in London). These connections provide a range of research opportunities in a wide range of biomedical science, ranging from molecular and cell biology, through translational and experimental medicine, to clinical trials and health services research. Given this breadth of research collaborations, successful applicants for these ACF posts would have an enormous range of world class science to consider for their choice of research focus.

Alongside these research opportunities, they would also be exposed to the range of formal lectures and seminars, and the training in generic and transferrable research skills offered by CATO http://cato.medschl.cam.ac.uk/) and the Graduate School of Life Sciences (http://www.biomed.cam.ac.uk/gradschool/). All academic trainees have the opportunity to apply for a Postgraduate Research MPhil with Taught Elements organised by CATO.

**Clinical component**

ACFs would participate in the normal specialty rotation. These posts would be indistinguishable from the mainstream ST3 entry posts and involve normal pro-rata on-call commitments, and night cover.

The successful candidate will commence their training at ST3 Level and spend their first two years in a full time clinical training post at Addenbrookes Hospital. This will allow completion of Intermediate Level Training in Anaesthesia as laid out in the new 2010 National Curriculum. All subspecialty training is delivered in well established modules and timetabled for the trainee in advance. All are delivered in Cambridge apart from three months of cardiac anaesthesia which is delivered in Papworth Hospital.
The School has adopted the electronic portfolio of the Royal College of Anaesthetists. A structured workbook of workplace assessments is also in place to ensure delivery of all elements of subspecialty training. In line with national guidance, the mentoring, tutoring and annual training review (ARCP) processes will involve representatives from both the Academic and Anaesthetic Departments in Cambridge. The region has a strong track record at the FRCA examination. Regular local and regional Final FRCA teaching is in place as are a number of Simulator Centre training days. There is an expectation that the trainee would secure their full Final FRCA prior to embarking on the full time academic module in year three.

The ACF Programme is principally designed to nurture trainees wishing to pursue an academic career. However, the post also equips the trainee with the necessary training to re-enter full time higher and advanced level training in anaesthesia after three years should this be required. Subject to satisfactory ARCP outcome, higher and advanced level training towards a CCT in Anaesthesia could be accommodated within the School's existing Training Programme. The Region can provide training across the entire range of anaesthetic subspecialty choices, with particular strengths in cardiothoracic anaesthesia, neuroanaesthesia, transplant anaesthesia. In addition, the Region also has existing Fellowship/Advanced Training schemes for subspecialty training in both pain medicine and intensive care.

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Alternatively, please visit the NIHR website: [https://www.nihr.ac.uk/funding-and-support/](https://www.nihr.ac.uk/funding-and-support/)