UNIVERSITY OF CAMBRIDGE

NHS

Health Education East of England

Specialised Foundation Programme (SFP)
(UoA: Cambridge)

To commence August 2024

PROSPECTUS

INFORMATION FOR APPLICANTS

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NHS

Health Education East of England

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Introduction

The Cambridge Specialised Foundation Programme (SFP) is part of Health Education East of England's East Anglian Foundation School. It is a well-established and successful programme which, between 2009 and 2023 has seen 300 trainees join the Programme, many of whom will continue on an academic pathway after completion. For more information on the East of England Foundation Schools and the University of Cambridge, please see Appendix 1 & 2 which include website links.

The East Anglian Foundation School, University of Cambridge and Cambridge University Hospitals Trust all work together to offer Specialised Foundation Programme trainees clinical and academic rotations that meet their clinical and academic needs. The Programme is well supported in departments and being based on Cambridge Biomedical Campus for their Year 2, trainees have access to outstanding researchers and leading clinicians in their field.

The programme expanded in 2017 with a new partnership following the creation of the Essex, Bedfordshire, and Hertfordshire Foundation School and with the benefit of funding from the NIHR BRC. There are now a total of 24 posts in the Cambridge Specialised Foundation Programme. More information on the Essex, Bedfordshire, and Hertfordshire Foundation School can be found on Health Education East of England's website https://heeoe.hee.nhs.uk

We are keen to encourage applications from talented candidates with academic potential who would like the opportunity to work in an academic environment or who are already committed to an academic career path. These posts will deliver the core competencies of Foundation Training and will be enhanced by an academic curriculum.

This Pack contains information that will help you complete your application. In addition to the information, you find here, please follow the links included throughout the document for further information.

The East of England Foundation School manages the application process locally. Any queries related to application requirements, eligibility, Oriel, shortlisting, or interview notifications, offers and similar should be directed to them.
Email: england.foundationrecruitment.eoe@nhs.net

The Specialised Foundation Programme Director in Cambridge is Professor Andrew McCaskie. Queries related to the academic options or the overall programme can be directed to the Clinical Academic Training Office (CATO) office.
Email: cato@medschl.cam.ac.uk

Please Note:
Names and Details are correct at the time of going to press (August 2023).

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Specialised Foundation Programme, Cambridge – August 2024 start

Background

A place on the Specialised Foundation Programme offers the opportunity to spend protected time on academic research. At Cambridge, this will be one four-month rotation during FY2. The remaining five rotations will be clinical attachments, during which clinical competencies must be met.

In Foundation Year 1, trainees are based at District General Hospitals in Bedford, Bury St Edmunds, Harlow, King's Lynn, Peterborough or Stevenage. Foundation Year 2 brings them back to Cambridge, to complete two further clinical rotations and their academic rotation at Cambridge University Hospitals Trust, Addenbrooke's. Website links to Addenbrooke's Hospital and the District General Hospitals can be found at Appendix 2.

During their academic block, Foundation Year doctors have no clinical commitments but will be required to keep up with their training portfolios. This may include attendance at a clinic or a documented case discussion and will be outlined by your Department when you join it.

There are 24 posts available to start in August 2024. We will recruit 3 trainees to each of the following academic options: Medicine, Neuro-Critical Care & Pain, Neurosciences, Surgery and each of the following: Choice A, B and C and D.

The 'Choice' options reflect the support for the Specialised Foundation Programme within the additional academic departments and give trainees the opportunity to select their academic rotation from one of the following: Clinical Radiology, Haematology, Medical Microbiology, Oncology, Paediatrics, Psychiatry and Transplant and Regeneration and General Practice/Primary Care.

Please be advised that research projects must be in the academic area of the post awarded.

On the following pages, you will find detailed information on each of the academic options available. The link to the 2024 rotations for Cambridge can be found here https://heeoe.hee.nhs.uk/foundation/foundation-recruitment/academic-training. This is for information only and correct at the time of publication – please make sure you use the post references as per Oriel when making your application.

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Academic Rotations

In the following pages, rotations are described in more detail.

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MEDICINE

Overview

The Department of Medicine is the largest department in the Clinical School, comprising 12 divisions, each involved in research related to human disease. The Department of Medicine currently houses 24 professors and over 750 directly employed and affiliated research and support staff. The department currently holds grants to the value of approximately £145m, with an annual expenditure of approximately £15m.

Research Component

Principal investigators in the Department of Medicine are a mix of clinical and non-clinical scientists and direct world-class research programmes in the fields of

Cardiovascular Medicine
Diabetes and Endocrinology
Gastroenterology and Hepatology
Immunology
Infectious Diseases
Metabolic Medicine
Renal Medicine
Respiratory Medicine
Rheumatology

The research interests of the Divisions are necessarily broad, although many groups work in the general area of immunity, inflammation and infection. Investigators in the Department perform high-quality basic science as well as translational research, and to do this maximise synergy with other scientists on the Cambridge Biomedical Campus and throughout the region. Research is focused on areas of relevance to human disease, with the aim being to understand the mechanisms of disease and to deliver novel therapeutic approaches to the clinic.

SFP trainees will find a rich field of research opportunities to choose from. Details on the scope, breadth and depth of these research programmes can be found at https://www.med.cam.ac.uk (see also Cambridge Immunology at https://www.immunology.cam.ac.uk)

Given the vast number of opportunities, personal advice and guidance for trainees admitted to the programme is available through the SFP lead for Medicine, Professor Arthur Kaser.

Department Academic Teaching/ Department Expectations

During their four-month attachment, SFP trainees will be embedded within thriving research environments within individual labs and be exposed to and learn pertinent state-of-the-art (experimental, clinical, and computational) techniques. They will work on a specific research project and receive formal training relevant to the context of the chosen research. This will also create an excellent environment to identify research groups to team up with for future research, e.g. to prepare for PhD or post-doctoral fellowship applications.

Lead Academic

Professor Arthur Kaser ak729@cam.ac.uk
https://www.med.cam.ac.uk

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CLINICAL NEUROSCIENCES

Overview

Neuroscience in Addenbrooke's Hospital enjoys a long and formidable academic history. The Department of Clinical Neurosciences encompasses the disciplines of Neurology and Neurosurgery, both of which are leading clinical academic units with international reputations. The department includes a number of cross-cutting research centres including the John Van Geest Centre for Brain Repair, the Wolfson Brain Imaging Unit, the Cambridge Centre for Frontotemporal Dementia, and the Cambridge Centre for Parkinson's Plus, and has close links with the Cambridge Dementia Research Institute.

Research Component

In Neurology, areas of research expertise encompass the neurodegenerative disorders (including Alzheimer's disease, Huntington's disease, Parkinson's disease, Frontotemporal Dementia), neuroinflammatory disease (multiple sclerosis and antibody-mediated disorders), stroke, neurogenetics and mitochondrial disorders. Patient-based studies are supported by world-class neuroimaging (including 7T MRI and PET-MRI) at the Wolfson Brain Imaging Centre and cognition research in collaboration with the MRC Cognition and Brain Sciences Unit. The Department has a strong track record in therapeutics, with the pioneering of novel monoclonal antibody treatments for MS and involvement in cell-based transplant therapies for Parkinson's disease and Huntington's disease. Lab-based research is unravelling the genetic and molecular basis of these neurological disorders and is leading directly to the development of novel therapeutics and clinical trials. In this context, Cambridge is one of the centres for the UK Dementia Research Institute which aims to elucidate mechanisms of neurodegenerative disease with a view to developing disease-modifying therapies. The Department also has a strong portfolio in vision and hearing research. Areas of particular expertise are glaucoma and mitochondrial optic neuropathies, including novel gene therapies for these; cochlear implants; novel psychoacoustic and electrophysiological tests of auditory function; and wearable technologies for measuring hearing and balance.

In Neurosurgery, research into neurovascular disorders, traumatic brain injury, hydrocephalus, brain tumours and spinal disorders complements a wide-ranging clinical practice which includes both adults and children. Current projects include the application of brain injury and damage, including multimodality monitoring (e.g. intracranial pressure, microdialysis, brain oximetry, transcranial Doppler, near-infrared spectroscopy). These methods are used to evaluate head injury, stroke, brain tumours and there is a growing clinical trial portfolio that will provide experience with trial management and design. Stem cell neurobiology is a major research interest in the Department, with research programmes focusing on mechanisms of promoting regeneration in spinal cord injury, as well as in neurological disorders such as multiple sclerosis.

For further information on current research interests please see our list of postgraduate research projects on https://www-neurosciences.medschl.cam.ac.uk/workandstudy/postgraduate-training/research-projects/

Department Academic Teaching/ Department Expectations

Each trainee will be expected to:

1. Participate in a new and/or ongoing research project under a named supervisor. This work may form part of a higher degree or pave the way for an application to do so.
2. Contribute to peer-reviewed publications and grant applications as appropriate.
3. Present a research abstract at a relevant Neuroscience meeting.
4. Participate in the laboratory meetings of the research supervisor's group.
5. Attend Departmental clinical academic meetings.
6. Attend relevant subspecialist outpatient clinics as appropriate.
7. Foster links with senior members of the Department with the aim of developing a future academic career

Lead Academic

Dr Caroline Williams-Gray chm27@cam.ac.uk
https://www-neurosciences.medschl.cam.ac.uk

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NEURO-CRITICAL CARE & PAIN

Overview

Established in 1991, the University of Division of Anaesthesia provides a world-class academic environment with research programmes in brain injury, major trauma, critical illness and persistent pain. The Academic FY2 rotation in Neuro-Critical Care & Pain combines clinical training in an acute medical specialty and critical care with an introduction to research. We encourage applicants with academic and clinical aspirations in a range of specialities, including but not limited to intensive care medicine, anaesthesia, pain medicine, emergency medicine, acute medicine, rheumatology, palliative care, pathology, neurology and neurosurgery.

Research Component

Successful applicants can choose to join a current research theme within the Division of Anaesthesia (https://anaesthetics.medschl.cam.ac.uk) or work in the laboratories of our research collaborators at the University of Cambridge. The programme provides an exceptional breadth of opportunities for exposure to cutting edge science including genetics, genomics, immunology, cell biology, neurosciences and imaging, healthcare systems and data science. The nature of our work ensures strong links to all clinical specialities but particularly those mentioned above. Exposure to clinical trials is also available as the host disciplines are active in delivering both local and national interventional studies.

Additionally, the Academic Division is linked to regional, national and international clinical and research networks, including leading the recently funded MRC UK platform for traumatic brain injury research (TBI-REPORTER), and contributing to the MRC/VA Advanced Pain Discovery Platform, East of England Major Trauma Network, and NIHR-Health Informatics Collaborative.

Department Academic Teaching/ Expectations

The SFP placement will be overseen by Dr Alasdair Jubb (Programme Lead) and Professor Jonathan Coles (Academic Lead). SFP appointees will be offered a further interview before starting the 4-month research attachment to agree on a suitable project and supervisor.

SFP trainees are encouraged to (i) provide a written review of scientific literature relevant to their project, (ii) acquire methodological skills (iii) develop an understanding of ethical and governance issues that are particular to critically ill adults unable to consent for themselves or experimental pain research methods, (iv) present at least one research abstract at a scientific conference and (v) participate in relevant group or departmental meetings, hospital rounds or clinics.

Past appointees have gone on to a range of posts, including NIHR Academic Clinical Fellowships, ACCS schemes, core medical training, fellowships in anaesthesia and intensive care, and run-through neurosurgical training.

Lead Academic

Dr Alasdair Jubb awj23@cam.ac.uk or Prof Jonathan Coles jpc44@cam.ac.uk

SFP applicants are also encouraged to contact investigators directly within the Division of Anaesthesia for information on specific research themes, or potential projects.

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SURGERY

Overview

The University Department of Surgery is one of the leading academic surgical departments in the UK and offers a stimulating and challenging academic environment in which to gain experience of surgical research. The major research focus of the department is organ transplantation, regenerative medicine and tissue engineering. This research interest is aligned to the world-renowned multi-organ transplant unit and to the Division of Orthopaedic Surgery at Cambridge University Hospitals NHS Foundation Trust. Cambridge is the only fully integrated abdominal organ transplant unit in the UK offering kidney, pancreas, liver and intestinal/multi-visceral transplantation. The transplant unit offers a fully integrated multi-professional environment for training with close working relationships between consultant transplant surgeons, nephrologists, hepatologists and gastroenterologists. The Department holds the NIHR Blood and Transplant Research Unit in Organ Donation and Transplantation under the directorship of Prof Nicholson. Regenerative medicine is the major research focus of the Division of Orthopaedic Surgery, led by Prof Andrew McCaskie, the Director of the Versus Arthritis Tissue Engineering and Regenerative Therapy Centre and the Head of the Department of Surgery. He leads a translational research programme with an emphasis on regenerative therapy in Osteoarthritis. This work ranges from stem cells to advanced materials and the associated clinical translation.

Research Component

During the research attachment, you will be expected to select a clinically based research project to undertake with help and guidance from the senior academics within the Department of Surgery. There are many potential projects to choose from, including projects which are already ongoing and those which you will fully develop yourself. In addition, you will be encouraged to write up a paper, case report or review. The experience will provide a stimulating introduction to clinical and translational research and is expected to lead to a publication and presentation of results both locally and nationally. You will also have the opportunity of contributing to research meetings and journal clubs within the department of surgery.

Department Academic Teaching/ Department Expectations

You will gain excellent experience in the medical and surgical management of all types of abdominal organ transplantation in a supportive and evidence based clinical environment. This includes the management of patients with life-threatening and complex problems in the high dependency beds within the transplant unit. Ward rounds are multidisciplinary and allow involvement in all aspects of management of patients undergoing transplantation.

You will gain an excellent introduction to clinical and translational research and an understanding of the scope and nature of academic surgery.

Lead Academic

Professor Michael Nicholson mln31@cam.ac.uk
https://surgery.medschl.cam.ac.uk

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CHOICE A, B, C and D

Overview
Trainees can select one of the 8 Choice academic options available. They are Clinical Radiology, Haematology, Medical Microbiology, Oncology, Paediatrics, Psychiatry and Transplant and Regeneration and General Practice/Primary Care. Posts will be offered in order of final ranking. You will be asked to confirm your academic specialty preference. You do not have to have make a decision when accepting an offer but please be aware that Departments will find it easier to accommodate you the more notice they are given.

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CLINICAL RADIOLOGY

Overview
The University Department of Radiology is located on the Addenbrooke's site and is closely integrated with the Cambridge University Hospitals NHS Foundation Trust Department of Radiology. The department provides a wide range of research and educational activity along with clinical imaging services within the NHS. We have access to some of the best imaging equipment available and Radiology is now one of the most popular and competitive training programmes in the UK. We have been running a highly successful Academic Clinical Fellowship programme in Radiology since 2006 and we are now offering experience in Clinical Radiology to more junior trainees as part of the SFP programme.
Research Component
Imaging has become an essential part of the biomedical sciences, not only for diagnosis and monitoring of subsequent therapy, but also for providing unique insights into causation of disease, pathophysiology and the translation of novel treatments from the laboratory into patients. We have world-class imaging facilities both clinically and pre-clinically; the University of Cambridge is among the leading centres for imaging research in the UK and undertakes world-leading research in many areas. The University Department of Radiology has close link with many other departments/institutes to facilitate this research e.g. CRUK Cambridge Institute, Wolfson Brain Imaging Centre, Departments of Clinical Neuroscience, Medicine, Oncology and Engineering. Mentorship will be provided within the department to successful candidates. During the academic phase of this rotation, Foundation Year doctors have no clinical commitments but will be required to maintain their training portfolios. This may include attendance at documented case discussions and will be outlined when you commence your rotation. Trainees can attend multidisciplinary team meetings and clinic-radiological conferences as well as the weekly radiology lecture series on Wednesdays. There may be the opportunity to attend clinical reporting sessions, however, given the short attachment to the departments we encourage you to dedicate this stage of the rotation to research.
Department Academic Teaching/ Department Expectations
The department has a strong track record for research. Trainees will be given the opportunity to pursue their own interests where possible and will be assigned a supervisor and a specific project during the programme. Trainees will be encouraged to present their results at national conferences as well to produce peer-reviewed publications from their work. This programme will be an excellent preparation to consider an application for ACF training and/or a higher degree in medical imaging. Trainees will be taught the skills to achieve their own publications in co-operation with the lecturers, professors and consultant staff.
Lead Academic
Dr Tristan Barrett tb507@medschl.cam.ac.uk https://radiology.medschl.cam.ac.uk

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HAEMATOLOGY

Overview
The University Department of Haematology provides a superb research environment with world-class programmes in haematopoietic malignancies, stem cell biology, transcriptional and epigenetic regulation, bone marrow failure syndromes, the structural biology of blood coagulation and transfusion medicine. Furthermore, the Department also has close links with other departments and Institutions within the University, particularly the Cambridge Stem Cell Institute (CSCI), with which it shares a number of investigators and with the nearby Wellcome Sanger Institute. In addition, members of the department make up the majority of the investigators in the Haematological Malignancies Programme within the CRUK Cambridge Cancer Centre, one of only two major Cancer Centres within the UK. The Department has a large number of clinician-scientists within its consultant body and also an enviable recent track record in developing successful trainees towards independent group leader positions. Applicants will be based in existing research groups within the department, where they will be able to expand their research experience, which will occur in 3 distinct blocks.
Research Component
There are a number of world-class programmes of research within the department of haematology. For specific details the applicant is referred to https://www.haem.cam.ac.uk
Department Academic Teaching/ Department Expectations
Applicants will gain exposure to the research groups currently working in the department of Haematology and their collaborators and to the techniques that they are applying. Exposure to a number of groups will expand the research experience of the applicant and allow them to make an informed decision about which research group to partner with for future research/PhD.
Lead Academics
Dr Daniel Hodson djh1002@cam.ac.uk https://www.haem.cam.ac.uk

Overview
The Public Health England (PHE) Clinical Microbiology and Public Health Laboratory (CMPHL) functions as the diagnostic laboratory for Cambridge University Hospitals NHS Foundation Trust, and provides clinical Microbiology services to East & North Herts NHS Trust, Royal Papworth NHS Foundation Trust, Hinchingbrooke Hospital, part of North West Anglia Trust, and the surrounding GPs in collaboration with neighbouring Trusts in the East of England. The service provides clinical advice and consultation services for the diagnosis and management of community and nosocomial infections. The service also provides Infection Control strategy and guidance, on antibiotic and antifungal stewardship. The department has a strong track record in clinical microbiology training and the range and complexity of patients seen at Addenbrooke's and, Royal Papworth Hospitals provide excellent clinical training opportunities. There are 5 specialist registrars, one Specialised Foundation trainee, two Academic Clinical Fellows and one Academic Clinical Lecturer; this provides the flexibility required for research-active trainees to undertake blocks of research training and experience. There are 10 WTE Consultant staff who are responsible for the educational and clinical supervision of trainees. The application of microbial whole-genome sequencing to diagnostic and public health microbiology is at the forefront of research in this speciality. Although this technology is likely to become widely disseminated and used in the future, there are currently few clinical centres where training in its application can be gained.
Research Component
Cambridge has a strong track record in microbiology and infectious diseases research with a number of groups working on basic science and clinical studies. Academic microbiology was established in Cambridge in 2009 with the appointment of Professor Peacock to the Chair of Clinical Microbiology. In 2019 Professor Ravi Gupta took up the Chair and leads a research program on viral evolution and biological characterisation of virus escape from therapeutics and vaccines, with a focus on HIV and SARS-CoV-2. He is also Faculty at the Wellcome Africa Health Institute in Durban. In the Department of Medicine (https://www.med.cam.ac.uk) Professor John Sinclair's group studies how human cytomegalovirus (HCMV) persists in healthy individuals studying cellular factors which control virus latency and reactivation. Dr Mark Wills' group studies the control of HCMV infection by the immune system. Dr Nicholas Matheson's group studies viral and cellular regulation of immune metabolism. Dr Yorgo Modis's group aims gain a mechanistic understanding at the molecular level of how important pathogens interact with their host cells during infection. Professor Lalita Ramakrishnan's group works on the pathogenesis of Mycobacterium tuberculosis and has developed a zebrafish model to study immunity to these mycobacteria. Professor Lehner's group uses functional genetic and proteomic technologies to study how viruses evade the human immune system. Dr Michael Weekes's group uses quantitative multiplexed proteomic approaches to characterise host restriction of intracellular pathogens. There are additional research opportunities available at the Wellcome Trust Sanger Institute (http://www.sanger.ac.uk/), and with Professor James Wood at the Department of Veterinary Medicine (https://www.vet.cam.ac.uk) Additional research opportunities are available through the Cambridge Infectious Diseases Initiative (http://www.infectiousdisease.cam.ac.uk/), the Cambridge Africa Programme (http://www.cambridge-africa.cam.ac.uk/), and the WHO Collaborating Centre for the modelling, evolution and control of emerging infectious diseases (http://www.whocc.infectiousdisease.cam.ac.uk/).
Department Academic Teaching/ Department Expectations
There are several weekly educational opportunities in infectious diseases and medical microbiology including seminars and departmental meetings to which the trainee will be expected to contribute. The trainee will also be involved in teaching undergraduate medical students.
Lead Academic
Professor Ravi Gupta rkg20@cam.ac.uk https://www.med.cam.ac.uk/infectious-diseases/

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ONCOLOGY

Overview

Patients are managed in the Cancer Directorate of Cambridge University Hospitals which is a busy regional cancer centre providing comprehensive research-led care by consultants in both Medical Oncology and Clinical Oncology to the local population as well as attracting increasing numbers of patients from outside the region.

The CR UK Cambridge Centre combines the research of the University, industrial partners and clinical facilities of the Hospital. It is one of only three Cancer Research UK "Major Cancer Centres."

The educational mission of the CR UK Cambridge Centre places a particular emphasis on training the future leaders of research in cancer. Cambridge is particularly well-suited to the conduct of basic and translational research. Excellent links between the clinical and scientific parts of the department are therefore crucial.

We are therefore very excited to offer Specialised Foundation Year posts and proud of our record supporting previous AFY within our department. Trainees are able to experience oncology practice and research in Cambridge. The oncology facilities and staff in Cambridge means that we are extremely well placed to offer opportunities for gifted trainees who wish to pursue research related to cancer which would be within the integrated academic training program of their chosen speciality.

Research Component

Cambridge has research strengths ranging from the very basic to the fully clinical:

- Cancer Research UK Cambridge Centre (https://crukcambridgecentre.org.uk)
- Cambridge Cancer Trials Centre (https://crukcambridgecentre.org.uk/patient-care/cctc/clinical-trials-in-cambridge)

During the SFP, the post-holder will have an excellent opportunity to experience clinical and translational oncology research both in the in-patient and out-patient settings. Post-holders are encouraged to develop their research interest and approach group leaders to organise their research block in a relevant subject area. Mentoring and advice will be available from senior academics and for the duration of the SFP post-holders will hold an honorary contract in the Department of Oncology (https://www.oncology.cam.ac.uk)

Department Academic Teaching/ Department Expectations

During an SFP post that includes Oncology, the trainee will become familiar with the management of oncology emergencies and with the key components of the medical care of cancer patients.

There is a wide range of academic and clinical seminars available which the SFP will be encouraged to attend. Attendance at the weekly radiological review meeting and the varied seminar program on campus is expected.

We hold regular Oncology Fellows Day at which Clinical Research Training Fellows, who are usually studying for a PhD, present their work to their peers and the faculty in order to receive constructive feedback in a semi-formal setting. The SFP will be expected to attend one of these days but will not be expected to present at this stage.

Lead Academics

Medical Oncology: Dr Simon Pacey scp46@cam.ac.uk
Clinical Oncology: Dr Rajesh Jena rjena@nhs.net
https://www.oncology.cam.ac.uk

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PAEDIATRICS

Overview
The Department of Paediatrics is an internationally recognised centre for research in child health and development. In particular, leading groups study Neonatal neurodevelopmental disorders and brain injury, Paediatric solid cancers, Endocrine-Genetic regulation of child growth and development, Type-1 diabetes, Epigenetics and mucosal immunology, and Experimental Medicine and Phase I/II Studies in Children. The senior academic staff include: Professor David H Rowitch, Head of Department Professor Topun Austin (Director, Evelyn Perinatal Imaging Centre) Professor Roman Hovorka (Director of Research – Institute of Metabolic Science) Professor Ken Ong (Programme Leader – MRC Epidemiology Unit) Dr Emile Hendriks (University Assistant Professor) Dr Kathryn Beardsall (University Associate Professor) Dr Nazima Pathan (University Associate Professor) Dr Matthias Zilbauer (University Associate Professor) Dr Sam Behjati (Wellcome Senior Clinical Fellow) Dr Loredana Marcovecchio (Clinical Senior Research Associate)
Research Component
The SFP trainee will undertake a short 4 month research project under the supervision of one of our senior academic staff members. They will also have to opportunity to gain understanding of a wide range of Paediatric Research methods, including clinical trials, physiological studies, epidemiology, genetics and laboratory-based research. Key research areas of the Department of Paediatrics are described on its website: https://paediatrics.medschl.cam.ac.uk
Department Academic Teaching/ Department Expectations
The SFP placement will be overseen by Professor David H Rowitch (Head of Department) and Professor Ken Ong (Regional Academic Advisor) with day-to-day supervision by specific investigators. In addition to hands-on research experience, we will guide the SFP trainee to develop a short research proposal to include: scientific background, hypothesis generation, study design, outcomes, and ethical and methodological issues. The SFP trainee will gain valuable exposure to the whole scope of Paediatric Research and an understanding of the ethical, governance, and study design issues particular to carrying out research on children and young people. We anticipate that the SFP trainee will develop a keen interest in and enthusiasm to pursue a clinical academic career in a particular area of Paediatric Research.
Lead Academics
Professor David H Rowitch dhr25@medschl.cam.ac.uk Professor Ken Ong Ken.Ong@mrc-epid.cam.ac.uk https://paediatrics.medschl.cam.ac.uk

UNIVERSITY OF CAMBRIDGE
PSYCHIATRY

Overview

The Department of Psychiatry in Cambridge is a highly respected and productive research centre. It is particularly well placed to train academic psychiatrists in research and teaching that can support the critically important goals of enhancing the practice and application of both type 1 (bench to bed-side) and type 2 (bed-side to health-service) translational research. We have strong links with both NHS and academic structures, including Cambridgeshire and Peterborough Foundation Trust, Departments of Psychology, Clinical Neuroscience and Public Health and Primary Care, and the MRC Cognition and Brain Sciences Unit. We have a strong clinical academic training tradition, and currently have several successful ACFs and ACLs and medically-trained PhD students.

Research Component

Our department carries out research using several methodologies including epidemiology, clinical informatics and bioinformatics, neuroimaging, genomics, neuropsychology, immunopsychiatry, psycho-pharmacology, health services research and randomised controlled trials. We carry out research in the healthy population and with a wide variety of patient groups, including psychosis, adolescent depression, addiction, intellectual disability, old age psychiatry and autism. SFPs will be welcome to carry out research in any of our areas of research, with expert supervision by one (or more) of our senior academics. Trainees will receive specific training in research methodology, appropriate to their areas of interest. Trainees will be welcome to attend, and expected to contribute to, local research meetings. Research support and supervision will be given before, during and after the 4-month research project.

Please see our webpage (https://www.psychiatry.cam.ac.uk) for more details.

Department Academic Teaching/ Department Expectations

We hope that SFPs will gain useful training to help them in the start of their research careers. This training will be both broad-based, providing transferable skills, and more narrow, to help them gain expertise in one or two research techniques. We expect trainees to learn from research meetings and more informal discussion with colleagues about research in other areas. In particular we hope that the SFPs will be part of the department's ACF/ACL peer group, gaining support from clinical academic trainees further into their careers.

We hope that following the specialised foundation programme, trainees will progress and become the research leaders of tomorrow. The Department of Psychiatry will provide support for application for the next stage of academic training, whether that be an ACF post or applying for funding for an MD/PhD.

Lead Academic

Dr Graham Murray gm285@.cam.ac.uk
https://www.psychiatry.cam.ac.uk

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TRANSPLANT AND REGENERATION

Overview

The programme offers research opportunities that encompass different Departments and disciplines in the broad areas of transplantation and regenerative therapies. While the theme is closely aligned to research within the Department of Surgery and Medicine, it also links to themes within the Cambridge Biomedical Research Centre, particularly Immunity, Inflammation and Transplantation and Devices and Advanced Therapies (see links below). Furthermore, this topic benefits and links to wider strengths and world class facilities on the Cambridge Biomedical Campus, for example the Welcome-MRC Stem Cell Institute.

Many areas of this field can be explored and taken forward as a project. By way of example, this could range from aspects of transplantation, such as those relating to the immune system (Professor Menna Clatworthy, Immunology and Infectious Disease (IMID) Lead) and Immunity, Inflammation and Transplantation (BRC Theme Lead) and those relating to ischaemia reperfusion injury/organ preservation (Professor Mike Nicholson, Professor of Transplant Surgery). In terms of regenerative therapy, an example relates to cartilage repair and osteoarthritis (Professor Andrew McCaskie, Professor of Orthopaedic Surgery and Head of Department of Surgery).

Research Component

The protected research time will typically be laboratory-based. The specific laboratory will be selected after selection and confirmation of a chosen the research topic, allowing for the candidates with a specific interest to be taken into account (although a specific interest is not a requirement). In this way the supervisor, laboratory and facilities can be optimised to the individual SFP doctor.

Department Academic Teaching/ Department Expectations

Applicants will gain exposure to the research groups currently working in the field of transplant and regeneration and their collaborators and to the research techniques that these use. This will generally encompass attendance at relevant laboratory meetings and related educational events.

Taken together, this will expand the research experience of the applicant and allow them to make an informed decision how research might be taken forward in their career, for example by looking to study for a higher degree.

(Please note that this programme will be limited to three placements).

Lead Academic

Professor Andrew McCaskie awm41@cam.ac.uk
https://surgery.medschl.cam.ac.uk/
https://www.med.cam.ac.uk/immunology-and-infectious-disease-imid/
https://cambridgebrc.nihr.ac.uk/research/devices-and-advanced-therapies/
https://cambridgebrc.nihr.ac.uk/research/immunity-inflammation-transplantation/

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GENERAL PRACTICE / PUBLIC HEALTH

Overview
Placements in Academic General Practice / Public Health will be undertaken within one of the three Population Health Sciences departments (the Department of Public Health and Primary Care and the MRC Epidemiology and Biostatistics Units). The Population Health Sciences Partnership has internationally recognised strengths in general practice and public health research and a strong record of supporting clinical academics. In the last 10 years the partnership has collectively hosted over 40 Academic Clinical Fellows and Clinical Lecturers, many of whom have gone on to develop careers as clinical academics. We are delighted to now be able to offer training at an earlier stage as part of the SFP programme and we are well placed to support trainees wishing to pursue a career in Academic General Practice or Public Health.
Research Component
The SFP trainee will undertake a short 4-month research project under the supervision of one of our senior academic staff members. We are not prescriptive about the research project and will seek to match the interests of the SFP trainee with the ongoing research within one of the Population Health Sciences departments. All three departments have a major interest in diverse projects relating to primary care/general practice and public health. These include the study of the aetiology and mechanisms of disease, the epidemiology of the major behavioural determinants of chronic disease using large scale datasets or innovative objective measures including wearables, the evaluation of preventive interventions operating at the individual and societal level, developing and evaluating new approaches to predict and prevent disease using quantitative and mixed methods approaches, producing an evidence-base for improving the organisation, quality, safety and delivery of care, developing cutting-edge analytical methods and population resources, and the evaluation of the effectiveness of health care interventions using routine data sources. During the 4-month placement the SFP trainee will receive specific training and support in the research methods appropriate to their chosen project. Through attendance at unit and Departmental seminars and research meetings, the trainee will also have the opportunity to gain a broad understanding of a wide range of applied research methods, including clinical trials, intervention development and evaluation, analysis of routinely collected data, and systematic reviews.
Department Academic Teaching/ Department Expectations
Trainees will be encouraged to present the results of their research project at national conferences as well to produce a peer-reviewed publication from their work. They will also be expected to attend unit or Departmental seminars and research meetings and to contribute to teaching. It is hoped that the trainee will additionally use the placement as an opportunity to develop links with senior members who will be able to provide support and mentorship for applications for the next stage of academic training.
Lead Academic
Dr Juliet Usher-Smith jau20@medschl.cam.ac.uk https://www.phpc.cam.ac.uk/pcu/

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Supervision

Academic supervisor

As a Specialised Foundation Doctor you will be given the opportunity to engage with an academic supervisor who will be responsible for overseeing your academic work and providing constructive feedback during your placement. This supervisor will also act as your research placement supervisor.

Your academic supervisor should agree the academic learning objectives and how they will be achieved at the beginning of the academic placement or programme. He/she will be responsible for the assessment of academic progress and confirming what has been achieved within the academic component of the programme.

Clinical supervisor

A clinical supervisor will be responsible for overseeing your clinical work and providing constructive feedback during each training placement.

It may be appropriate for the clinical supervisor to delegate some supervision to other doctors although he/she remains responsible for your supervision.

Educational supervisor

Your educational supervisor will be a clinician responsible for the overall supervision and management of your educational progress during your foundation training placement or series of placements. They are responsible for your educational agreement as a clinical foundation doctor. Your educational supervisor will help with your professional and personal development as a foundation doctor.

Additional Guidance

All Foundation Trainees, including Specialised Foundation Programme Trainees, will be expected to acquire the core competencies of foundation training. For details of the Foundation Programme curriculum, please see https://foundationprogramme.nhs.uk/curriculum/

In addition, Specialised Foundation Programme Trainees can use the UK Foundation Programme's Academic Compendium to identify, with their academic supervisor, outcomes and competences that they can work towards, to demonstrate academic achievement.

The Compendium identifies outcomes related to research, medical education, and management/leadership.

Those related to research include:

- Identifies a specific research question and develops an appropriate study protocol
- Writes and submits an application for funding
- Writes and submits an application for ethical approval (local/national)
- Conducts a study/experiment (lab-based study, a study that uses patients/human volunteers or a population-based study)
- Writes up a study/experiment for publication in a peer-reviewed journal
- Presents the study/experiment results at a local/national/international meeting

Progress and achievement in competences from the Academic Compendium should be recorded in the trainee's ePortfolio

Other Learning Opportunities

There is a wealth of learning opportunity available through Departments, the Clinical School and the organisations on the Cambridge Biomedical Campus. Academic supervisors are often best placed to offer advice if needed. Opportunities include:

- Seminars and Events advertised through the School of Clinical Medicine and CATO
- Department-specific seminars and training
- Grand Rounds take place every Wednesday during term-time at the Clinical School
- Access to University of Cambridge library / journals on completion of VRA (Visiting Researcher Agreement)

Clinical Academic Training Office (CATO)

The University's Clinical Academic Training Office (CATO) co-ordinates the Clinical Academic Programmes here at Cambridge, including the Specialist Foundation Programme.

The team are the **point of contact** for concerns or queries clinical academic trainees may have. If they can't directly help, they will direct you to someone else who can. Regarding the issues SFPs trainees clinical training please contact in first instance HEE.

The CATO office will inform you about the many opportunities available to clinical academic trainees. These include:

A **Welcome Event** which is held each September to introduce new SFP trainees and Academic Clinical Fellows to their programmes and provides an opportunity to meet each other and the programmes' academic leads.

The **Annual Academic Symposium and Dinner** is held during the year, at one of the Colleges. This is a half-day conference comprising talks and workshops with invited speakers, followed by a drinks reception and dinner with after-dinner speaker. It provides another opportunity to meet fellow SFP, ACF and Clinical Lecturer trainees.

Each July, the SFP **Annual Research Day** is held in conjunction with NIHR BRC Cambridge. At this event, the SFP2 trainees are expected to submit an abstract of their academic block research and present a poster. A number of trainees each year will be asked to make a presentation based on their abstract.

A **Mentoring Scheme** will be in place. This is part of a framework offering various options to meet the needs of trainees on the academic clinical programmes.

SFP Community, there are two dedicated Trainee Representatives alongside a WhatsApp Group to keep in touch each other.

Other events and opportunities are organised and/or publicised through the CATO office. Details are emailed to trainees. Recent events include workshops on academic leadership, mentoring and basic science.

Circulation of relevant/useful information: trainees are included in the circulation of information related to clinical academics. These may be specific to a programme or for general interest.

Website: Clinical Academic Training Office offers a range of information on the clinical academic programmes, plus useful links and information, a calendar of events and information specific to current trainees.

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The Application Process

Application to the Specialised Foundation Programme is made through the national process, via the online Oriel system. For the Person Specification, please refer to the UK Foundation Programme (UKFP 2023) Eligibility Applicant Guidance 2023. For detailed guidance on applying for the 2023 Foundation Programmes, please go to The UK Foundation Programme Office website. The site has lots of information on the Foundation Programmes including the UKFP 2023 Applicant's Handbook.

Please remember that any applications submitted via Oriel past the deadline of 12.00 noon (BST) Wednesday 4th October 2023 will not be considered.

Interviews

Candidates shortlisted for interview will be informed via Oriel.
Interviews for the Cambridge Specialised Foundation Programme will be held during the period 20/11/2023 until 24/11/2023.

On the day of interviews, each applicant will be interviewed and scored by a single panel comprising both clinical and academic personnel using standardised scoring criteria and consisting of both clinical and academic questions. You will not be required to show a portfolio, but you should ensure you have proof of identity (preferably a passport).
Interviews for training commencing in August 2024 will be conducted online.

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Points to Note

'White Paper' Questions in the application form
These questions offer an opportunity for applicants to show the shortlisting panel why they would be an excellent SFP trainee. Please take time to give full, considered responses in this section.

If you have any queries regarding the application process, e.g. Oriel, completing your application, interview dates etc, please contact england.recruitment.eoe@nhs.net

Feedback
Interview feedback can be provided for unsuccessful candidates, following confirmation of the outcome. Requests for feedback can be made by email to Foundation Programmes (EOE) england.foundationrecruitment.eoe@nhs.net

Feedback will not be given in relation to shortlisting.

Specialised Foundation Programme (SFP) - Frequently Asked Questions and Who to Contact you can find on our website Specialised Foundation Programme (SFP) – FAQ's

QUERIES AND FURTHER INFORMATION

The East of England Foundation School manages the **application process** locally. Any queries related to application requirements, eligibility, Oriel, shortlisting or interview notifications, offers and similar should be directed to them.

Health Education East of England (HEEoE)
2-4 Victoria House, Capital Park
Fulbourn Cambridge
CB21 5XB
Foundation School Enquiries: recruitment.eoe@hee.nhs.uk

Information about the **Clinical Academic Training Programmes** managed by the University of Cambridge, can be found on the Clinical Academic Training Office (CATO) website. Queries regarding specific departments can be directed through the Academic Leads for the Academic rotations available. This information is detailed on pages 5-15 above. Other queries can be directed to the CATO office: cato@medschl.cam.ac.uk

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Appendix 1

The University of Cambridge

We are one of the world's oldest universities and leading academic centres, and a self-governing community of scholars. The University comprises 31 Colleges and 150 Departments, Faculties, Schools and other institutions. The mission of the University of Cambridge is to contribute to society through the pursuit of education, learning, and research at the highest international levels of excellence.

The School of Clinical Medicine is one of the UK‟s leading Medical Schools. Its strength is built on close relationships with pre-clinical science on the one hand, and on translational partnerships with NHS organisations on the other. It comprises Departments, including Clinical Biochemistry, Haematology, Medical Genetics, Medicine, Obstetrics and Gynaecology, Oncology, Paediatrics, Public Health and Primary Care, Psychiatry, Radiology, Surgery and Clinical Neurosciences. For further information, please visit https://www.medschl.cam.ac.uk

Research Themes

- Cancer Research
- CardioVascular Medicine
- Diabetes, Endocrinology and Metabolism
- Epidemiology and Public Health
- Genetics and Genetic Medicine
- Haematological and Transplantation Medicine
- Neurosciences and Mental Health
- Stem Cells and Regenerative Medicine
- Women's health

Further information may be found at Research Themes

Excellence in Partnership

The School is a member of Cambridge University Health Partners, a partnership between the University of Cambridge, Cambridge University Hospitals NHS Foundation Trust, Royal Papworth Hospital NHS Foundation Trust and the Cambridge and Peterborough NHS Foundation Trust.

The NIHR Cambridge Biomedical Research Centre (BRC) is a partnership between Cambridge University Hospitals NHS Foundation Trust and The University of Cambridge. The partnership between the hospital and the University creates an environment where internationally outstanding biomedical and clinical scientists work alongside clinical practitioners to achieve translation or research for the benefits of patients.

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Appendix 2

Organisations:
Health Education England East of England
University of Cambridge

Hospitals:
Addenbrooke's Hospital
Bedford
Peterborough
Queen Elizabeth, King's Lynn
West Suffolk, Bury St Edmunds
Lister Hospital, Stevenage
The Princess Alexandra, Harlow

Other Useful links:
School of Clinical Medicine
Cambridge Biomedical Campus

The UK Foundation Programme
UKFP 2023 Applicant's Handbook
The UK Foundation Programme Specialised Compendium

Visit Cambridge
Cambridge News