

**TWO-YEAR SPECIALISED FOUNDATION PROGRAMMES AT
BRIGHTON AND SUSSEX MEDICAL SCHOOL (BSMS)
AND UNIVERSITY HOSPITALS SUSSEX NHS TRUST**

1. INTRODUCTION

The Brighton Academic Specialised Foundation Training (SFP) Programme comprises eighteen two-year posts. Successful applicants are recruited to a specific 4-month academic F2 post. This post sits within a generic 2-year foundation programme with 5 other clinical placements, balanced to enable acquisition of foundation competences.

2. DETAILS OF TRAINING PROGRAMMES

| Programme Reference | Programme Theme | Based at |
|----------------------------|-------------------------------|-------------------------------------|
| 2023BSMS/01 | Stroke & Elderly Care | Royal Sussex County Hospital /BSMS |
| 2023BSMS/02 | Haematology | Royal Sussex County Hospital / BSMS |
| 2023BSMS/03 | Infectious Diseases | Royal Sussex County Hospital / BSMS |
| 2023BSMS/04 | Haematology | Royal Sussex County Hospital / BSMS |
| 2023BSMS/05 | Hepatology / Gastroenterology | Royal Sussex County Hospital / BSMS |
| 2023BSMS/06 | Haematology | Royal Sussex County Hospital /BSMS |
| 2023BSMS/07 | Intensive Care Medicine | Royal Sussex County Hospital / BSMS |
| 2023BSMS/08 | Genito-Urinary Medicine / HIV | Royal Sussex County Hospital / BSMS |
| 2023BSMS/09 | Paediatrics | Royal Sussex County Hospital / BSMS |
| 2023BSMS/10 | General Practice | Department of Primary Care / BSMS |
| 2023BSMS/11 | General Practice | Department of Primary Care / BSMS |
| 2023BSMS/12 | General Practice | Department of Primary Care / BSMS |
| 2023BSMS/13 | Medical Education | BSMS Dept of Medical Education, UHS |
| 2023BSMS/14 | Medical Education | BSMS Dept of Medical Education, UHS |
| 2023BSMS/15 | Medical Education | BSMS Dept of Medical Education, UHS |
| 2023BSMS/16 | Management and Leadership | Royal Sussex County Hospital, UHS |
| 2023BSMS/17 | Management and Leadership | Royal Sussex County Hospital, UHS |
| 2023BSMS/18 | Management and Leadership | Royal Sussex County Hospital, UHS |

Both the F1 and F2 posts are based within UHS NHS Trust but may be either at the Royal Sussex County Hospital in Brighton, or at Princess Royal Hospital in Haywards Heath. The F1 year consists of 3 four-month clinical placements. Trainees will meet with their supervisors during their F1 year so that they can start to plan their projects and prepare ethics applications (if required). Trainees can attend a regular academic faculty group meetings every four months with an induction event at the start of each research block. There is an Academic Peer Mentoring Group which provides support for all academic trainees alongside a journal club. Statistical support is available if required. There is an F2 trainee representative on the Academic Training Committee. The annual Brighton Clinical Academic Conference allows trainees to present their work at the end of the programme.

The F2 year comprises two 4-month clinical placements to enable the acquisition of core competencies and a 4-month dedicated academic placement. For those interested in teaching, there is a wealth of opportunities: e.g. helping organise mock-OSCEs and revision teaching for Year 3-5 medical students. The BSMS Department of Medical Education runs full day teaching courses, workshops, short taught courses on research skills, and help with eLearning technology.

3. PLACEMENTS

Successful applicants are recruited to a specific 4-month academic F2 post. This post sits within a generic 2-year foundation programme with 5 other clinical placements, balanced to enable acquisition of foundation competences. Applicants should note that clinical placements are subject to change dependent on service need and are provisional until confirmed by the employing healthcare organization, and that the academic blocks have a modest 1-in-5 weekend on-call component with compensatory pay uplift that was introduced to maintain clinical skills during research attachments.

Programme 1 – Stroke/Elderly Care – based at BSMS/RSCH

Reference: 2023BSMS/01

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| <i>Type of programme:</i> Research - The candidates have an opportunity to work in a research active environment with excellent infrastructure provided by the Clinical Research Unit of the hospital and a 50-bed stroke unit in Brighton and Haywards Heath. The focus is on stroke research and the cardiovascular system. | |
| <i>Employing trust:</i> University Hospitals Sussex NHS Trust | <i>Academic placement based at:</i> Royal Sussex County Hospital |
| <i>Brief outline of department:</i> Professor C Rajkumar is the Charles Hunnisett Foundation Chair of Geriatrics and Stroke Medicine. His research areas are around cardiovascular laboratory-based research into ageing process of arteries & epidemiology research into hypertension & study of risk factors in stroke and post TIA. The potential projects will investigate non-invasive ways of measuring cardiovascular risk factors in patients with stroke, diabetes, renal disease and peripheral vascular disease. These include a number of novel methods for assessing arterial stiffness, the role of sympathetic nervous system activity using 24-hour Holter, various methods for measuring arterial stiffness and ambulatory BP monitoring. The unit is well equipped to handle data and has a track record of publications in high impact journals. It also has a number of international collaborations. Academic trainees have published and presented at international conferences on a number of occasions. | |
| The unit runs several clinical trials in Stroke Medicine as part of the National Institute of Health Research (NIHR) Stroke research network. The candidates will have the opportunity to be part of these multi-centre trials. | |
| The unit is part of the Kent, Surrey and Sussex local comprehensive research network, (LCRN - part of NIHR) for Stroke Research. Professor Rajkumar is the academic lead for the cardiovascular division and stroke in Kent, Surrey and Sussex. The unit is part of a number of multi-centre clinical studies which are on the NIHR portfolio. | |

Structure of academic project/what expected

In the past few years, candidates who have held this post have ended up publishing in international journals, presenting at national and international meetings and have also been successful in obtaining positions for future careers in academic medicine. In addition to the potential to participate in various projects, the candidates have an opportunity to work in a research active environment with excellent infrastructure provided by the Clinical Research Unit of the hospital and a 30-bed stroke unit.

The candidates also have the opportunity to be trained in various research techniques to run clinical trials. Training in good clinical practice guidelines, use of statistical packages including SPSS, training in the use of Endnote and other research packages are also part of the process.

Departmental academic teaching programme (if applicable)

The unit is also part of the undergraduate training programme and Professor C Rajkumar is the lead for Stroke Medicine module. The feedback from students for this module has been excellent and the academic trainee will have ample opportunity to be involved in this training module. There will also be opportunities to be involved in undergraduate exams and also various teaching programmes.

Clinical teaching mainly during the above ward rounds to 3rd year medical students and teaching in 2 clinics per month.

Academic Lead:

Professor C Rajkumar

01273 523360

Raj.Rajkumar@nhs.net

<https://www.bsms.ac.uk/about/contact-us/staff/professor-chakravarthi-rajkumar.aspx>

Programme 2 – Haematology – based at BSMS/RSCH

Reference: 2023BSMS/02

Type of programme:

Research - Haematology research at BSMS is overseen by Professor Timothy Chevassut, Chair of Haematology and Director for Academic Training, who runs an active translational research programme to improve treatment of blood cancers.

Employing trust:

University Hospitals Sussex NHS Trust

Academic placement based at:

Royal Sussex County Hospital
BSMS Medical Research Building

Brief outline of department

Haematology research in Brighton focuses primarily on understanding the biology of blood cancer, notably acute myeloid leukaemia, chronic lymphoid leukaemia and multiple myeloma, with a view to exploring new therapeutic strategies in these disease areas. We are particularly interested in understanding the molecular mechanisms of disease in acute myeloid leukaemia with the aim of identifying novel targeted strategies in order to improve treatment outcomes. Through recent academic appointments, we also have active research projects in chronic lymphocytic leukaemia and multiple myeloma.

Our laboratory is based at the Medical Research Building on the Sussex University campus at Falmer which has state-of-the-art facilities. We maintain a tissue bank of patient blood and bone marrow samples and haematological cell lines and have published widely on our research. We have a number of collaborations with various other investigators in Brighton and elsewhere in the UK working in areas of epigenetics, signal transduction, genomic instability, DNA methylation, drug discovery, next generation sequencing, bone marrow microenvironment, and immunotherapies including CAR-T strategies.

Professor Tim Chevassut has been chief and principal investigator on several clinical trials in AML through the Clinical Investigation Research Unit at the Royal Sussex County Hospital, including phase I and II studies. There are six other haematology consultants who collectively manage a busy level 2 haematology service and laboratory including flow cytometry. Dr John Jones has recently been appointed by BSMS and has an active research programme looking at the biology and treatment of multiple myeloma including CAR-T related projects.

BSMS has also recruited Professor Chris Pepper and Dr Andrea Pepper, who have strong track records in research on chronic lymphocytic leukaemia with a particular focus on studying the bone marrow microenvironment and telomere biology in blood cancers, and Dr Simon Mitchell who works on mathematical modelling of lymphoma. Collaborative research opportunities are encouraged. Interested candidates are encouraged to look at the website or contact Dr Chevassut for further details. Previous experience with laboratory techniques and a good basic knowledge of molecular biology would be helpful.

Structure of academic project/what expected

This will be tailored to the individual. Most projects are experimental laboratory-based but clinical research opportunities can also be organised.

Departmental academic teaching programme (if applicable)

Participation in the “work-in-progress” research seminar series at Falmer and/or the Monday clinical educational lunchtime meetings at the hospital is encouraged. Trainees are also supported in attending the peer teaching sessions, academic training induction days, and end of year Brighton clinical academic conference.

Academic Lead:

Professor Timothy Chevassut MA FRCP FRCPATH PhD

Chair of Haematology and Director of Academic Training

t.chevassut@bsms.ac.uk

<http://www.bsms.ac.uk/research/our-researchers/timothy-chevassut/>

Programme 3 – Infectious Diseases – based at BSMS/RSCH

Reference: 2023BSMS/03

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| <i>Type of programme:</i> Research | |
| <i>Employing trust:</i> University Hospitals Sussex NHS Trust | <i>Academic placement based at:</i> Royal Sussex County Hospital |
| <i>Brief outline of department</i> <p>Infectious diseases is a major academic theme at Brighton and Sussex Medical School. Among the clinical academics, Professor Newport is head of the Department of Global Health which supports a number of research projects suitable for FY2 academic trainees offering experience in a range of disciplines (e.g. epidemiology, lab-based genetics and immunology) and topics (global anti-microbial resistance, tuberculosis, HIV, malaria, neglected tropical diseases, non-communicable diseases in low-income settings). BSMS is a Wellcome Trust Centre for Global Health Research and we have good links with centres in Africa (e.g. Zambia, Ethiopia).</p> <p>Within this department, Professor Llewelyn works on clinical and immunological assessment of patients with healthcare-associated infections such as <i>Staphylococcus aureus</i> and <i>Clostridium difficile</i>. He is working with the modernising medical microbiology consortium (www.modmedmicro.ac.uk) to use microbial whole genome sequencing to study transmission and pathogenicity of these organisms and with the UK Clinical Infection Research Group to undertake a multicenter Randomised Controlled Trial of rifampicin in the management of <i>S. aureus</i> bacteraemia (www.ukcirg.co.uk).</p> | |
| <i>Structure of academic project/what expected</i> <p>In the past we have found the most successful approach for our SFP trainees is to develop a specific project within one of these areas considering the trainees interests and aptitudes. Such a project may be patient focused or lab-based (microbiology, immunology or genetics). The successful appointee should contact Prof Llewelyn or Prof Newport to discuss the post as soon as possible after appointment.</p> | |
| <i>Academic Leads:</i> Prof Martin Llewelyn - m.j.llewelyn@bsms.ac.uk Prof Melanie Newport - m.j.newport@bsms.ac.uk www.bsms.ac.uk/research/our-research/infection-immunology for further information. | |

Programme 4 – Haematology – based at BSMS/RSCH

Reference: 2023BSMS/04

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| <i>Type of programme:</i> <p>Research - Haematology research at BSMS is overseen by Professor Timothy Chevassut, Chair of Haematology and Director for Academic Training, who runs an active translational research programme to improve treatment of blood cancers.</p> |
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| <p><i>Employing trust:</i></p> <p>University Hospitals Sussex NHS Trust</p> | <p><i>Academic placement based at:</i></p> <p>Royal Sussex County Hospital BSMS Medical Research Building</p> |
| <p><i>Brief outline of department</i></p> <p>Haematology research in Brighton focuses primarily on understanding the biology of blood cancer, notably acute myeloid leukaemia, chronic lymphoid leukaemia and multiple myeloma, with a view to exploring new therapeutic strategies in these disease areas. We are particularly interested in understanding the molecular mechanisms of disease in acute myeloid leukaemia with the aim of identifying novel targeted strategies in order to improve treatment outcomes. Through recent academic appointments, we also have active research projects in chronic lymphocytic leukaemia and multiple myeloma.</p> <p>Our laboratory is based at the Medical Research Building on the Sussex University campus at Falmer which has state-of-the-art facilities. We maintain a tissue bank of patient blood and bone marrow samples and haematological cell lines and have published widely on our research. We have a number of collaborations with various other investigators in Brighton and elsewhere in the UK working in areas of epigenetics, signal transduction, genomic instability, DNA methylation, drug discovery, next generation sequencing, bone marrow microenvironment, and immunotherapies including CAR-T strategies.</p> <p>Professor Tim Chevassut has been chief and principal investigator on several clinical trials in AML through the Clinical Investigation Research Unit at the Royal Sussex County Hospital, including phase I and II studies. There are six other haematology consultants who collectively manage a busy level 2 haematology service and laboratory including flow cytometry. Dr John Jones has recently been appointed by BSMS and has an active research programme looking at the biology and treatment of multiple myeloma including CAR-T related projects.</p> <p>BSMS has also recruited Professor Chris Pepper and Professor Andrea Pepper, who have strong track records in research on chronic lymphocytic leukaemia with a particular focus on studying the bone marrow microenvironment and telomere biology in blood cancers, and Dr Simon Mitchell who works on mathematical modelling of lymphoma. Collaborative research opportunities are encouraged. Interested candidates are encouraged to look at the website or contact Dr Chevassut for further details. Previous experience with laboratory techniques and a good basic knowledge of molecular biology would be helpful.</p> | |
| <p><i>Departmental academic teaching programme (if applicable)</i></p> <p>Participation in the “work-in-progress” research seminar series at Falmer and/or the Monday clinical educational lunchtime meetings at the hospital is encouraged. Trainees are also supported in attending the peer teaching sessions, academic training induction days, and end of year Brighton clinical academic conference.</p> | |
| <p><i>Academic Lead:</i></p> <p>Professor Timothy Chevassut MA FRCP FRCPath PhD Chair of Haematology and Director of Academic Training - t.chevassut@bsms.ac.uk http://www.bsms.ac.uk/research/our-researchers/timothy-chevassut/</p> | |

Programme 5 – Hepatology – based at BSMS/RSCH

Reference: 2023BSMS/05

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| <i>Type of programme</i> | |
| Research – Hepatology and Gastroenterology, overseen by Professor Sumita Verma | |
| <i>Employing trust:</i> | <i>Academic placement based at:</i> |
| University Hospitals Sussex NHS Trust | Royal Sussex County Hospital |
| <i>Brief outline of department</i> | |
| Brighton and Sussex University Hospital (UHS) and Brighton and Sussex Medical School (BSMS) has an active research programme in Hepatology, headed by Professor Sumita Verma, Professor of Hepatology. | |
| <p>Over the last four years Professor Verma (as PI) has been awarded four grants (~900K) including funding from the NIHR and Dunhill Medical Trust), which enabled the appointment of two Fellows (2015-2018) (both registered for a PhD) and a research nurse. We are looking to appoint another research fellow for two years (2019-2-12). We have also successfully appointed our first Academic Clinical Fellow (ACF) (2015-2018). Till date we have had six academic F2.</p> <p>UHS has a dedicated and fully staffed Clinical Investigation and Research Unit as well as a Clinical Trials Unit (CTU). In 2014/15 UHS was designated a Regional Hepatitis C Centre/Operator Delivery Network to deliver the new oral HCV drugs. The Academic F2 will therefore be working in an academic environment with highly motivated research orientated individuals. Additionally, there are well-established academic activities including a weekly liver MDM and histology meeting and a four weekly journal club and GI academic Afternoons. Prof Verma’s award winning research interests focus on:</p> <ol style="list-style-type: none">1. Developing novel community models of care for early chronic liver disease amongst vulnerable adults (people who inject drugs and the homeless)2. Develop novel non-invasive techniques to image neutrophil migration in the liver as a diagnostic tool for severe alcoholic hepatitis3. Non-viral liver disease burden in HIV positive individuals (which will be the academic F2 project)4. Improve symptom burden in advanced cirrhosis- (funder NIHR RfPB) a RCT comparing long-term abdominal drains vs. repeated drainage in patients with cirrhosis and refractory ascites | |
| <i>Academic Lead:</i> | |
| Professor Sumita Verma Professor of Hepatology s.verma@bsms.ac.uk https://www.bsms.ac.uk/about/contact-us/staff/dr-sumita-verma.aspx | |

Programme 6 – Haematology – Based at BSMS/RSCH

Reference: 2023BSMS/06

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| <i>Type of programme:</i> | |
| Research - Haematology research at BSMS is overseen by Professor Timothy Chevassut, Chair of Haematology and Director for Academic Training, who runs an active translational research programme to improve treatment of blood cancers. | |
| <i>Employing trust:</i> | <i>Academic placement based at:</i> |
| University Hospitals Sussex NHS Trust | Royal Sussex County Hospital BSMS Medical Research Building |
| <i>Brief outline of department</i> | |
| <p>Haematology research in Brighton focuses primarily on understanding the biology of blood cancer, notably acute myeloid leukaemia, chronic lymphoid leukaemia and multiple myeloma, with a view to exploring new therapeutic strategies in these disease areas. We are particularly interested in understanding the molecular mechanisms of disease in acute myeloid leukaemia with the aim of identifying novel targeted strategies in order to improve treatment outcomes. Through recent academic appointments, we also have active research projects in chronic lymphocytic leukaemia and multiple myeloma.</p> <p>Our laboratory is based at the Medical Research Building on the Sussex University campus at Falmer which has state-of-the-art facilities. We maintain a tissue bank of patient blood and bone marrow samples and haematological cell lines and have published widely on our research. We have a number of collaborations with various other investigators in Brighton and elsewhere in the UK working in areas of epigenetics, signal transduction, genomic instability, DNA methylation, drug discovery, next generation sequencing, bone marrow microenvironment, and immunotherapies including CAR-T strategies.</p> <p>Professor Tim Chevassut has been chief and principal investigator on several clinical trials in AML through the Clinical Investigation Research Unit at the Royal Sussex County Hospital, including phase I and II studies. There are six other haematology consultants who collectively manage a busy level 2 haematology service and laboratory including flow cytometry. Dr John Jones has recently been appointed by BSMS and has an active research programme looking at the biology and treatment of multiple myeloma including CAR-T related projects.</p> <p>BSMS has also recruited Professor Chris Pepper and Dr Andrea Pepper, who have strong track records in research on chronic lymphocytic leukaemia with a particular focus on studying the bone marrow microenvironment and telomere biology in blood cancers, and Dr Simon Mitchell who works on mathematical modelling of lymphoma. Collaborative research opportunities are encouraged. Interested candidates are encouraged to look at the website or contact Dr Chevassut for further details. Previous experience with laboratory techniques and a good basic knowledge of molecular biology would be helpful.</p> | |

Structure of academic project/what expected

This will be tailored to the individual. Most projects are experimental laboratory-based but clinical research opportunities can also be organised.

Departmental academic teaching programme (if applicable)

Participation in the “work-in-progress” research seminar series at Falmer and/or the Monday clinical educational lunchtime meetings at the hospital is encouraged. Trainees are also supported in attending the peer teaching sessions, academic training induction days, and end of year Brighton clinical academic conference.

Academic Lead:

Professor Timothy Chevassut MA FRCP FRCPATH PhD

Chair of Haematology and Director of Academic Training

t.chevassut@bsms.ac.uk

<http://www.bsms.ac.uk/research/our-researchers/timothy-chevassut/>

Programme 7 – Intensive Care Medicine – based at RSCH

Reference: 2023BSMS/07

Type of programme:

Research – Intensive Care Medicine research at UHS is overseen by Professor Barbara Philips, Consultant in Intensive Care Medicine and Anaesthesia at The Royal Sussex County Hospital

Employing trust:

University Hospitals Sussex NHS Trust

Academic placement based at:

Royal Sussex County Hospital

Brief outline of department

The Department of Intensive Care Medicine is one of the largest in the country and manages 44 beds over 2 sites, with most beds at the Royal Sussex County Hospital. Clinical care is Consultant led with considerable Consultant presence on the Wards managing ward rounds, undertaking procedures and supervising the Critical Care Outreach team of nursing staff. There are 23 Specialist and Core trainees on the Intensive Care Unit at any one time.

The Intensive Care Unit provides a climate where research is actively encouraged and supported in a multidisciplinary fashion. A full-time grant funded research nurse is in post to support unit research activities. We have an extensive publication record of locally inspired research and partake in a selection of Multicentre NIHR portfolio studies as well.

The Intensive Care Unit is an active participant of the Clinical Research Network in Kent, Surrey and Sussex, and the SFP trainee would be encouraged to learn more about how Research is organised in the NHS by attendance at, and review of, the CRN management and processes.

Ongoing Portfolio Research projects are concerned with Ventilator weaning, the management of post-trauma bleeding, Surgical intervention in open limb fractures, and the management of liver failure. Local projects investigate perioperative care, the interaction between Intensive Care Staff and patient relatives, Drug levels and responses in critically ill patients, the outcome of survivors of cardiac arrest, and the use and abuse of Intensive Care severity of illness scoring systems.

Structure of academic project/what expected

This will be tailored to the individual. Most projects are clinically based or involve data collection and analysis. The most successful approach for our SFP trainees is to develop a specific project within one of these areas considering the trainees interests and aptitudes; and also integrating work into the current trial and research work ongoing at the time. The Intensive Care Research portfolio is clinically and practically based with research frequently directly impacting on patient care.

The candidates also have the opportunity to be trained in various research techniques to run clinical trials. Training in good clinical practice guidelines, use of statistical packages including SPSS, training in the use of Endnote and other research packages are also part of the process. We also have adequate time to present work to varying size groups and obtain feedback.

The Intensive Care Unit is an active participant of the Clinical Research Network in Kent, Surrey and Sussex, and the SFP trainee would be encouraged to learn more about how Research is organised in the NHS by attendance at, and review of, the CRN management and processes.

Departmental academic teaching programme (if applicable)

The Intensive Care Unit has regular weekly teaching afternoon every Tuesday and the SFP trainee is encouraged to attend these meetings. An academic training course is also made available via the Clinical Investigation Research Unit (CIRU) which the candidate is encouraged to attend.

Academic and Research Lead:

Professor Barbara Philips MD FRCA FRCA FFICM
Consultant in Intensive Care and Anaesthesia
b.philips@bsms.ac.uk

Programme 8 – Genito-Urinary Medicine – based at BSMS/RSCH

Reference: 2023BSMS/08

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| <i>Type of programme:</i> Research – Genitourinary and HIV Medicine, overseen by Dr Jaime Vera, Senior Lecturer | |
| <i>Employing trust:</i> University Hospitals Sussex NHS Trust | <i>Academic placement based at:</i> Royal Sussex County Hospital |
| <i>Brief outline of department</i> <p>The F2 doctors will work in the HIV/GUM research unit at RSCH, part of the Department of HIV/GUM which is the largest HIV treatment centre in the UK outside London, treating over 2,000 patients. The Genito-Urinary Medicine clinic, based at the Claude-Nicol Centre at RSCH, provides both general and specialist GUM services and sees 25,000 patients each year. The team has a proven track record of securing funding for a range of research areas which include research into HIV and Ageing; HIV Neurology; HIV transmission; Testing for HIV and STIs; patient management and monitoring and toxicity related to antiretroviral therapy.</p> | |
| <i>Structure of academic project/what expected</i> <p>The F2 doctor will have either the opportunity to contribute to an existing research project, to develop a discrete aspect of it or to develop a research project. Either could lead to a presentation at a national or international conference as well as aim for a publication.</p> <p>Specifically, an F2 doctor would be integrated into the existing research team, and would develop skills in:</p> <ul style="list-style-type: none">• Literature searches using electronic databases such as MEDLINE• Ethical Committee approval and research governance processes and principles of Good Clinical Practice (GCP) for research• Collating and inputting data into statistical software packages (e.g. SPSS)• Specific laboratory techniques or questionnaire methodology pertinent to the concurrent research activities | |
| <i>Departmental academic teaching programme (if applicable)</i> <p>The department has a weekly academic seminar programme with internal and external speakers; this includes a journal club and a regular research review meeting which provides a forum to discuss new research ideas and ongoing protocol development.</p> | |
| <i>Academic Lead:</i> Professor Jaime Vera Professor of HIV Medicine j.vera@bsms.ac.uk | |

Programme 9 – Paediatrics – based at BSMS/RACH

Reference: 2023BSMS/09

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| <i>Type of programme</i> | |
| Research – Paediatrics at the Royal Alexandra Children’s Hospital | |
| <i>Employing trust:</i> | <i>Academic placement based at:</i> |
| University Hospitals Sussex NHS Trust | Royal Sussex County Hospital |
| <i>Brief outline of department</i> | |
| <p>Dr Katy Fidler (senior lecturer) leads research on predictive factors for paediatric infections. She collaborates with academics in London, and with Professor Mukhopadhyay and Professor Heike Rabe for work on several cohorts (e.g. BREATHE, Go-CHILD). Dr, Christina Jones (lecturer) has a particular interest in behavioural aspects of clinical management of disease and is closely involved with paediatric clinical trials run by the department.</p> <p>The study of gene-environment (including pharmacogenetic) interactions that influence asthma and allergy phenotype in childhood constitutes an important area of investigation. The line of research has resulted in the identification of several novel pathways of likely clinical importance in children’s asthma. A number of randomized controlled trials are currently in progress, aiming to translate the findings to clinical practice, as part of the introduction of the principles of personalized medicine to the field of children’s asthma and allergy. The foundation year trainee will be encouraged to develop one of these angles of investigation through close working with colleagues already involved in one of these areas of research.</p> <p>A 6 million euro EU FP7 programme grant led by Professor Heike Rabe, Reader, BSMS, explores novel angles for neonatal cardiovascular treatments and there are multiple opportunities for developing a research project working within this programme.</p> | |
| <i>Structure of academic project/what expected</i> | |
| There are opportunities for training in research methodology within the two universities as appropriate for the research plan for the trainee. | |
| <i>Departmental academic teaching programme (if applicable):</i> N/A | |
| <i>Academic Lead:</i> | |
| Professor Mukhopadhyay s.mukhopadhyay@bsms.ac.uk http://www.bsms.ac.uk/research/our-research/paediatrics/ | |

Programme 10, 11 & 12 – General Practice – based at BSMS

Reference: 2023BSMS/10

Reference: 2023BSMS/11

Reference: 2023BSMS/12

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| <i>Type of programme</i> | |
| Research - The academic GP attachment based in Department of Public Health & Primary Care at Brighton & Sussex Medical School comprises of research and education. | |
| <i>Employing trust:</i> | <i>Academic placement based at:</i> |
| University Hospitals Sussex NHS Trust | Brighton & Sussex Medical School BSMS, Mayfield House, Falmer, University of Brighton Campus |
| <i>Brief outline of department</i> | |
| <p>We are a multi-disciplinary department: primary and community care services, public health, social science, epidemiology, psychology. The clinical focus of our current primary care research is health service delivery, sexual health, cancer, dementia, cardiovascular health, the electronic patient record, multimorbidity/frailty and mental health). Applicants are encouraged to examine staff profiles on the department website (https://www.bsms.ac.uk/research/primary-care-and-population-health/primary-care/pcph-team.aspx) to explore current research activity.</p> <p>The department participates in the NIHR Applied Research Collaboration (ARC) for Kent Surrey and Sussex (ARC KSS). ARCS support applied health and care research that responds to the needs of local populations and local health and care systems Please see https://arc-kss.nihr.ac.uk for more information</p> <p>The department contributes to academic teaching in all years of the undergraduate curriculum. In Phase I the teaching is around generic clinical and communication skills and in later years, general practice and public health. There are also opportunities to write for a post graduate journal targeted at GPs in training.</p> | |
| <i>Structure of academic project/what expected</i> | |
| <p>Research:</p> <p>F2s should meet online with Dr Max Cooper and Dr Sangeetha Sornalingam in advance of the placement to plan academic activities. Output typically takes the form of research/academic writing and teaching/assessment. Please note that the four month timeframe it is not conducive to undertaking new research projects requiring ethics approval etc. All F2s plan and submit at least one paper for a GP journal, typically Innovait (Sage). This is normally based upon a clinical area of interest to the F2 but structured through a general practice approach to care. Other journals that F2s have successfully published in include the BMJ and the Journal of Medical Biography. We aim to support F2s to develop areas of personal interest towards academic writing/research by applying a GP lens.</p> | |

Please note that research undertaken during this rotation must be led from the department rather than the hospital or another department. The F2 may also contribute to an existing research project undertaken by a member of the department staff (see link to staff profiles above). F2s may present their work at a national Primary Care Conference (e.g. Society of Academic Primary Care or RCGP).

Prior to joining the department, it is helpful to speak to a previous F2 who has completed this rotation in order to understand how to use this opportunity most profitably.

Teaching:

The opportunities for participating in teaching and student assessment will vary depending on the phase in the academic cycle, but all F2s will have the opportunity for some formal medical education training and involvement in the General Practice or clinical practice curriculum.

Departmental academic teaching programme (if applicable)

The Division has a weekly academic seminar with speakers from the division, our parent universities and externally. A regular Research in Progress meeting provides a forum for emerging ideas and interpretation of recently collected data.

Academic Lead:

Dr Max Cooper Senior Lecturer in Primary Care
m.cooper@bsms.ac.uk

Programme 13, 14, 15, - Medical Education posts based at BSMS/RSCH

Reference: 2023BSMS/13

Reference: 2023BSMS/14

Reference: 2023BSMS/15

Type of programme

Research/Teaching - The main research areas for BSMS are in the areas of simulation, development of clinical reasoning, technology-enhanced learning, bedside and ward round teaching, flipped classroom teaching, compassion in the undergraduate curriculum, teaching and learning of safe and effective prescribing, anatomy education and student admissions.

The medical educational supervisors may be BSMS academics or UHS Consultants with a medical education background.

Employing trust:

University Hospitals Sussex
NHS Trust

Academic placement based at:

Brighton & Sussex Medical School BSMS, Mayfield
House, Falmer, University of Brighton Campus

Brief outline of department

The multi-professional Department of Medical Education (DME) is headed by Professor Gordon Ferns with other members of the academic team including Senior Lecturers, Senior Teaching Fellows, Teaching Fellows, Learning Technologists, PhD and MSc students involved in undergraduate and postgraduate teaching and learning and research. As well as the BMBS undergraduate course, there is a Physician Associate course and various postgraduate MSc courses.

We have an active research programme comprising:

- Simulation in medical education both at BSMS and UHS
- Technology enhanced learning and its use in healthcare settings
- Flipped classroom approach to teaching
- Development of clinical reasoning in students and junior doctors
- Development of clinical based teaching
- Career support for undergraduate students
- Compassion awareness research in undergraduates
- The development of a structured approach to teaching and learning of prescribing and therapeutics in UK medical schools and extending this into the foundation years of clinical practice
- Development and Evaluation of an innovative Longitudinal Integrated Clerkship in dementia
- The impact of the BSMS Widening Participation Scheme into medicine (BrightMed)
- The process of student selection; identification of predictors of future performance
- Anatomy education
- BSMS has a very strong student-led medical education society that is looking at peer-learning
- At UHS there is also research into peer-peer teaching

The post-holder will also be able to apply for a Postgraduate Certificate in Medical Education (with one module funded). Post-holders will be encouraged to get involved in medical school admissions, medical school assessments including writing exam questions and OSCEs and teaching the undergraduates and PA students. There will be an opportunity to run a Student Selected Component. It is expected that the postholders will attend a Medical Education Conference to present their work.

The post will provide core and translatable skills for a future medical career.

Departmental academic teaching programme (if applicable)

The post holder is expected to participate in departmental teaching and learning and research meetings. There are regular teaching courses that the students can attend

Academic Leads:

Professor Michael Okorie: Senior Lecturer in Medical Education and Clinical Pharmacology
University Hospitals Sussex NHS Trust: m.okorie@bsms.ac.uk

Dr Bethany Davies: Senior Lecturer in Infection, BSMS: b.davies@bsms.ac.uk

Programme 16, 17 & 18 – Academic Management & Leadership – based at BSMS/RSCH

Reference: 2023BSMS/16

Reference: 2023BSMS/17

Reference: 2023BSMS/18

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|--|---|
| <i>Type of programme:</i> Leadership and Management, overseen by Dr David Bloomfield, Consultant Oncologist | |
| <i>Employing trust:</i> University Hospitals Sussex NHS Trust | <i>Academic placement based at:</i> Royal Sussex County Hospital |
| <i>Brief outline of department</i> Examples of recent projects include: activity, capacity and demand work and developing an electronic handover tool, change in practice as a result of an evidence based librarian on ward rounds and building a business case for expansion of the Acute Oncology Service to the Princess Royal Hospital site. | |
| <i>Structure of academic project/what expected</i> 1) Engagement with the UHS leadership network throughout both FY1 and FY2 <ul style="list-style-type: none">- Expected: Organise any Read-to-Lead events which fall during your academic rotation<ul style="list-style-type: none">Expected: Attend leadership faculty group meetings during your academic rotation (and where possible throughout your time as a leadership trainee)- Expected: Mentor management and leadership (M&L) FY1s and update M&L handbook- Rota permitting: Attend monthly peer support meetings- Rota permitting: Attend quarterly IHI, Read to Lead the Innovation Forum 2) Plan and run a service improvement project <ul style="list-style-type: none">- Expected: Identify a project and supervisor six months prior to the start of your academic rotation- Expected: Have significant involvement in a project which results in a sustained change to a clinically relevant service<ul style="list-style-type: none">o This project should allow you to demonstrate both management and leadership qualities; pure audit or research is not appropriateo Successful projects are usually trust wide and involve multi-disciplinary working however, they may also focussed on developing services within specialist departmentso The "Compendium of Academic Competences" leadership and management section outlines the expectations of your academic project (www.foundationprogramme.nhs.uk/pages/academic-programmes) | |

3) Share your work

- Expected: Send a summary of your projects' progress to the Leadership Faculty Group during your rotation
- Expected: During your rotation present a 6-slide summary of your project to each peer support group to keep the group updated on your progress.
- Expected: Send a final summary of your project for inclusion in the M&L online "drop-box"
- Expected: Present your project at the academic presentation evening at the end of F2
- Expected: Either publish your work in a peer review journal OR present your work at a regional, national or international meeting - can be performed after end of rotation

4) Gain academic and leadership skills

- Expected: Complete a masters-level module in Leadership and Commissioning provided by the BSMS Post Graduate Faculty of Health and Social Science
- Expected: lead third year medical student specialist study module on 'leadership through doing' (1 afternoon per week x 6 weeks).
- Possible: Complete a PG Certificate during the foundation programme (two modules would need to be self-funded and study leave obtained)
- Possible: complete an NHS Leadership Academy qualification such as the Mary Seacole PG Certificate in Healthcare Leadership
- Encouraged: Attend CRF research courses as related to your learning needs
- Encouraged: Complete BMJ/ IHI e-learning modules which are related to your learning needs

5) Gain an understanding of the trust's clinical governance structures

- Expected: Attend a wide range of trust management meetings (E.g. trust board meeting, clinical management board, nursing management board)
- Encouraged: Shadow chief executive for a half-day
- Encouraged: Become a CQC specialist advisor

Academic Lead: For further information about possible projects and potential supervisors, please contact:

Louise Virgo, Foundation Manager, louise.virgo@nhs.net

Dr David Bloomfield, Head of Medical Leadership Faculty UHS
david.bloomfield1@nhs.net

4. THE MEDICAL SCHOOL AND PARTNER TRUSTS

Brighton and Sussex Medical School (BSMS) is committed to providing first class undergraduate and postgraduate training which links clinical medicine to basic science and research. Strong, internationally recognised research groups have been established in the fields of infectious diseases, haematology, immunity, neurosciences, international health, oncology, neuromuscular biology, care of the elderly, and primary care.

Postgraduate courses (postgraduate certificates/diplomas and Masters) are run through the Department of Medical Education at BSMS which focus on clinical education, leadership and professional development, medical research, paediatrics, public health, dementia, cardiology, global health, radiology amongst others. See link below for the brochure.

<https://www.bsms.ac.uk/postgraduate/postgraduate-guide/postgraduate-guide.aspx>

The Medical School has state-of-the-art clinical teaching facilities in the Audrey Emerton Building, the Education Centre at the Royal Sussex County Hospital, and the Education Centre at the Princess Royal Hospital in Haywards Heath. There are three teaching and research buildings at the Sussex University and Brighton University sites at Falmer, including a Clinical Imaging Sciences Centre incorporating state-of-the-art fMRI and PET-CT instruments. In addition, there is an active Clinical Research Facility on the Royal Sussex County Hospital site.

The research programme of the Medical School is growing rapidly. It is focused around major themes that include Neuroscience, Cancer, and Infection and Inflammation. Within these, we have particular strengths in haematology, elderly care medicine, primary care, epidemiology and imaging. There is a joint Research Office that handles NHS R&D contracts and strong links between the BSMS research faculty and NHS colleagues.

For more information about research and academic programmes at BSMS please see below:

<http://www.bsms.ac.uk/research/our-researchers/>

<http://www.bsms.ac.uk/postgraduate/>

<http://www.bsms.ac.uk/>