

## Job Description

### NIHR Academic Clinical Fellowship

### Infectious Diseases ST1 or ST3 entry (1 multi-speciality post)

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Hull York Medical School, in partnership with Health Education England Yorkshire and the Humber with Hull and East Yorkshire NHS Trust, has developed an exciting pathway of academic clinical training opportunities.

Applications are now invited for an Academic Clinical Fellowship in **Infectious Diseases** at **ST1 or ST3** level.

*Please note: This is a multi-specialty vacancy, an appointment may not be made in this specialty. There will be 1 ACF post in either Otolaryngology or Vascular Surgery or Infectious Diseases.*

This post been created as part of the Health Education England (HEE)/National Institution for Health Research Trainee Coordinating Centre (NIHRTCC) programme of Integrated Academic Training and offers candidates a comprehensive experience of clinical academic medicine working alongside internationally renowned clinicians and researchers.

*\*This Job Description is currently structured for the Core Medical Training programme. This may transition to the Internal Medicine Training Programme if implemented in this specialty for 2019; for more information please see <https://www.jrcptb.org.uk/new-internal-medicine-curriculum>.*

We are seeking highly motivated, enthusiastic individuals with the potential to excel in both their clinical and academic training and who have the ambition to be the next generation of academic clinicians.

This Academic Clinical Fellowship (ACF) programme in Infectious Diseases will be run by Hull York Medical School (HYMS) in conjunction with Hull and East Yorkshire Hospitals NHS Trust, Health Education England Yorkshire and Humber.

Academic Clinical Fellowships (ACFs) are 3 year fixed-term national training posts. They attract an NTN(A) and trainees undertake 75% clinical and 25% academic training over the term of the post. They are employed by the NHS Trust and have an honorary contract with the University at whose Medical School their academic research is supported.

ACF trainees also undertake a Research Training Programme provided by the University for which funding is provided by NIHR. They also are eligible for a £1,000 bursary per year to support research training activity (e.g. to attend academic conferences).

ACF trainees would also normally complete and submit an external funding application for a research fellowship to enable them to complete a higher degree (PhD or research MD)

following the completion of their ACF fixed-term post, which would be completed as Out-of-Programme-Research (OOPR).

All Academic Clinical Fellowships are run-through posts, regardless of specialty, with the exception of 'Medical Education' ACFs. A trainee entering ACF at ST1 or ST2 in a specialty with a Core Training period would therefore be guaranteed continued training to CCT in the eventual specialty, as long as they progress satisfactorily through both their academic and clinical training. Run-through status is withdrawn if ACFs do not complete the academic component.

## **POST DETAILS**

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### **Job Title**

NIHR Academic Clinical Fellow (ACF) – Infectious Diseases

### **Duration of the Post**

Up to 3 years (25% academic, 75% clinical).

### **Lead NHS Hospital/Trust in which training will take place**

Hull and East Yorkshire Hospitals NHS Trust (see rotation details below).

### **Research institution in which training will take place**

The successful candidate will be based at Hull and East Yorkshire Hospitals NHS Trust (HEYHT) working in conjunction with active research groupings within HYMS and the University of York. The primary academic host environments will be Hull York Medical School at Hull and East Yorkshire Hospitals NHS Trust, but may also include the Centre for Immunology & Infection (CII), Dept. of Biology, University of York <http://www.york.ac.uk/cii/> or other departments depending on the nature of the project.

### **Research Protected Time:**

ACFs have day release training to attend and can also complete either an MSc by research or relevant modules to extend their training (if they already have an MSc), at Hull York Medical School. The protected research period (25% time) is used to obtain specific experience and knowledge in the research area of interest, obtain pilot data, and apply for an external research fellowship.

### **Academic Clinical Fellowship Training Programme: Research Component**

A mutually agreeable timetable for research time will be drawn up by the candidate and the academic/clinical supervisors, designed to meet overall training goals. The exact pattern of

time will be guided by the proposed research project and whether blocks of time or a day a week for the research component are more appropriate.

The Department of Infection has a broad research portfolio mainly focusing on research of the clinical management and epidemiology of infection commonly treated in the NHS (lead by Dr Gavin Barlow) who is affiliated to CII, but including multi-centre NIHR and portfolio research. Selected examples of previously published articles include: Successful treatment of resistant *Burkholderia multivorans* infection in a patient with cystic fibrosis using ceftazidime/avibactam plus aztreonam (J Antimicrob Chemother. 2018 Aug); A survey of practice and opinions on the use of topical antibiotics to prevent surgical site infection (J Antimicrob Chemother. 2018 Mar); Clinical challenges in antimicrobial resistance (Nat Microbiol. 2018 Mar); Adjunctive rifampin for adults with *Staphylococcus aureus* bacteremia (ARREST) (J Antimicrob Chemother. 2018 Apr); Development and impact of a massive open on-line course [MOOC] for antimicrobial stewardship (J Antimicrob Chemother. 2018 Apr); *Staphylococcus aureus* bloodstream infection: a pooled analysis of five prospective, observational studies (J Infect 2014;68:242-51); long-term mortality after bacteraemia (Clin Microbiol Infect 2013;19:955-60); the performance of CURB-65 in community-acquired pneumonia (Eur J Clin Microbiol Infect Dis 2010;29:1117 and Clin Microbiol Infect 2009;15:858); community-associated MRSA in East Yorkshire (J Hosp Infect 2009;72:307); and the clinical utility of *Staphylococcus aureus* antibody tests (Eur J Clin Microbiol Infect Dis 2010;29:737).

Other departmental research activities have included: involvement in the UK Clinical Infection Research (UKCIRG) Network (ARREST trial and International Staph. aureus Collaboration (ISAC)); recruitment to various multi-centre studies (e.g. OVIVA, Enceph-UK, NEEMO, Merck MK3415A-001 [C. diff study]); C2D2 research priming funding from the University of York (Establishing a microbiological and immunological baseline for individuals with surgical wounds healing by secondary intention); and providing clinical expertise to a now completed evidence mapping and systematic review on the cost-effectiveness of interventions to prevent healthcare associated infection in collaboration with the Centre for Reviews and Dissemination, University of York (commissioned/funded by the European Centre for Disease Control, ECDC).

The department is currently supervising one academic clinical fellow (working on the impact of antibiotics on the gut microbiome and volatile organic compounds of the breath) and four academic foundation doctors (who are working on various projects focusing on *Clostridium difficile*, procalcitonin, fosfomycin synergy testing and HIV). The department also hopes to appoint a consultant level academic post in collaboration with HYMS in the near future.

The successful applicant will develop a project under the supervision of Dr Gavin Barlow, and, depending on the nature of the project, may be co-supervised by other experienced academics at the Universities of York or Hull and focus on high-quality training in the bench-to-bedside (translational) clinical research. This will build on recent academic collaborations and a desire to increase clinically orientated translational infection research locally. The exact area of research is negotiable, and will be finalised after discussion with GB, but current possibilities include: use of antibiotics at the end-of-life (in collaboration with Prof. Miriam Johnson); how penicillin-binding proteins influence the efficacy of double beta-lactam therapy (combined laboratory and clinical project); mapping the efficacy of combination antibiotic therapy in clinical practice (systematic review); volatile organic compounds in human breath and respiratory infection (combined laboratory and clinical project); or orthopaedic infection research (in collaboration with Prof. Hemant Sharma).

During their protected research time, the ACF may therefore spend time at both the Universities of York/Hull, and Hull and East Yorkshire Hospitals NHS Trust. Once the topic

is agreed, the successful candidate will write the study protocol and ascertain ethics and NHS governance approvals (if required). The applicant will then undertake and complete the project with subsequent presentations at national/international conferences; publication(s); completion of an MSc thesis; and development of a PhD fellowship application.

Full training in research methods and good clinical practice will be provided. Each ACF will have an academic supervisor throughout. If the ACF also registers for a MSc by research, they will have a Thesis Advisory Panel (TAP), which usually comprises the supervisor and two other members of academic staff, one of whom acts as the Chair and is independent from the supervisor. The TAP provides academic support and external review of progress for the student. On appointment, in conjunction with their supervisor, the ACF will complete a Training Needs Analysis (TNA) and be able to access modules from the HYMS Post Graduate Training Selection list both to help with their research project and with their professional development as a researcher.

We anticipate the successful exit point for ACF trainees will be the award of an externally funded clinical research training fellowship to pursue a PhD or MD; prior to re-joining the academic career path as a Clinical Lecturer.

## **Academic Clinical Fellowship Training Programme: Clinical Component**

The successful candidate entering at ST1 level will undertake core medical training and gain MRCP qualification. The ACF will then enter combined infection training in year 3 of the ACF post.

Hull and East Yorkshire Hospitals NHS Trust is the regional infection referral centre for Hull, East Yorkshire and North Lincolnshire as well for haematology/oncology, renal, neurosurgery and cardiothoracic surgery, and has a tertiary catchment area of approximately 1.2 million persons. The Department of Infection, which incorporates Ward 7 (infection ward) at Castle Hill Hospital and Medical Microbiology at Hull Royal Infirmary, is an integrated infection department with 8 infection consultants, 1 consultant scientist (Virology), five specialist trainees and 1 consultant scientist trainee (Microbiology). The Microbiology/Virology laboratories process 520,000 samples per year and have unconditional CPA accreditation.

The infection ward is new and has 12 side rooms, 6 of which are dedicated negative pressure isolation rooms (for the management of patients suspected/known to have high risk respiratory spread pathogens such as chickenpox, multi-drug resistant TB, SARS, avian influenza and viral haemorrhagic fever). One of these rooms is an 'Ebola ready' facility with a separate entrance and exit to the main ward area. The unit has acquired the status of a HIV Primary Treatment Centre for East Yorkshire and leads a network of approximately 500 HIV positive patients and provides the only dedicated inpatient facility for HIV positive patients in the region. The unit also provides care for MDR TB for the region. The predominant inpatient infections managed are: complex skin and soft tissue, bone/joint (especially discitis/spinal infection), infections due to intravenous drug use, bacteraemia and other complex bacterial infections (e.g. endocarditis, meningitis, psoas abscess, etc.), HIV, TB, and travel related illness.

An infection consultation service is provided at both of the trust's main sites. The unit has particularly close working relationships with the Departments of Respiratory Medicine (TB and other respiratory infections), Gastroenterology (viral hepatitis), Genitourinary Medicine

(HIV) and Public Health. The consultants in infection have a 'hands on' ethos and work closely together; the infectious diseases consultants rotate fortnightly between ward, outpatient and inpatient referral duties. There is an innovative and nationally recognised outreach service to the prisons and sheltered centres of Hull and East Yorkshire. There are also highly regarded chronic fatigue, bone and joint infection (supra-regional) and outpatient parenteral antibiotic therapy (OPAT) services. The department provides considerable input to infection education at both undergraduate and postgraduate levels, and leads in antibiotic stewardship and infection prevention and control across the trust.

The department has an increasing national reputation for training and other academic and external activities. Previous trainees, for example, have ascertained consultant posts in Birmingham, Bradford, Hull, Mansfield, Leeds and Worcester, full-time StR posts in Sheffield, Birmingham and Bristol, a research fellow post in Oxford, and entry into communicable disease control/public health training.

The ACF post in Infectious Diseases provides a unique opportunity to undergo broad-based training in the management of common and unusual infections requiring hospitalisation or outpatient care. There are currently 2 rotating ST1/ST2 posts hosted by the ward as well as 2 F1 posts and an academic F2 trainee in HIV shared with GUM. The department will also host a trained physician associate from October 2018. Depending on experience and training requirements, the ACF will rotate through other clinical placements required to deliver the competencies required by the Core Medical and/or Specialist Training Curricula. The department has a good track-record of allowing trainees either out of programme experience or external in-programme training, for example, in Australia and East Timor, at the London School of Tropical Medicine & Hygiene and in the local Dept. of Public Health.

All doctors attend the weekly infection MDT and educational meetings; the ACF will be expected to present at least once per year. The ACFs in infectious diseases will also be expected to take a joint lead in organizing a monthly academic infection meeting and work together productively on other projects. Other educational opportunities include a weekly X-ray meeting and medical grand round and HIV, hepatitis, orthopaedic infection and OPAT MDT meetings.

Whilst attached to the microbiology laboratory, trainees will gain experience in microbiology, virology, mycology, parasitology and molecular techniques (e.g. PCR and MALDI-TOF) and will be exposed to laboratory liaison, in-patient reviews, daily visits to critical care wards and other specialist units, and attendance at a wide-range of MDT meetings. Trainees also gain experience in infection control, antibiotic stewardship, and epidemiology and public health and will attend monthly Yorkshire microbiology training events, are supported to ascertain MRCPATH (as appropriate), and will be encouraged to teach. Out-of-Hull placements in the microbiology departments of other hospitals (e.g. York, Leeds) may be required.

# CONTACTS

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## Academic Lead and Supervisor:

Gavin Barlow  
Consultant Physician & Hon. Clinical Senior Lecturer (HYMS)  
Dept. of Infection & Tropical Medicine, Castle Hill Hospital,  
Hull & East Yorkshire Hospitals NHS Trust, Cottingham, East Yorkshire.  
HU16 5JQ. Phone: 01482 875875 ext. 2653 or 2267  
[Gavin.Barlow@hey.nhs.uk](mailto:Gavin.Barlow@hey.nhs.uk)

## Educational Supervisor:

Kate Adams  
Consultant Physician  
Dept. of Infection & Tropical Medicine, Castle Hill Hospital,  
Hull & East Yorkshire Hospitals NHS Trust, Cottingham, East Yorkshire.  
HU16 5JQ. Phone: 01482 875875 ext. 2267  
[Kate.Adams@hey.nhs.uk](mailto:Kate.Adams@hey.nhs.uk)

## Academic Training Programme Director

Professor Fliss Murtagh  
[fliss.murtagh@hyms.ac.uk](mailto:fliss.murtagh@hyms.ac.uk)

# Further Information

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Because of the nature of the work for which you are applying, This post is exempted from the provisions of Section 4 (2) of the Rehabilitation of Offenders Act 1974 by virtue of the Rehabilitation of Offenders Act 1974 (Exceptions) Order 1975.

Applicants are therefore, not entitled to withhold information about convictions, which for other purposes are “spent” under the provisions of the Act, and in the event of employment any failure to disclose such convictions could result in dismissal or disciplinary action by the University. Any information given will be strictly confidential and will be considered only in relation to an application for positions to which the Order applies.

For further information about the Academic Clinical Fellowship programme, please refer to the NIHR (National Institute for Health Research) Trainee Coordinating Centre (NIHRTCC) page on [NIHR Integrated Academic Training For Doctors and Dentists - Academic Clinical Fellowships](#)

# Person Specifications

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Applicants for this post will be required to meet the relevant Clinical eligibility criteria for the appropriate specialty and level.

*Please note - (applicants applying for Surgical, Medical or Psychiatry specialties at ST3 or above may be required to consult the relevant Core Training person specification).*

See

<http://specialtytraining.hee.nhs.uk/Recruitment/Person-specifications>

AND the Academic eligibility criteria listed at:

<http://specialtytraining.hee.nhs.uk/Recruitment/Person-specifications>

## How to Apply

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For more information about applying to ACF vacancies in Health Education England Yorkshire and the Humber please visit:-

[http://www.yorksandhumberdeanery.nhs.uk/recruitment/our\\_vacancies/academic\\_recruitment/](http://www.yorksandhumberdeanery.nhs.uk/recruitment/our_vacancies/academic_recruitment/)

Applications will only be accepted through the Oriel online application system:-

<https://www.oriel.nhs.uk>

Applications open: 10:00 on 8th October 2018

Applications close: 16:00 on 5th November 2018

After the application deadline no applications will be accepted. **There will be no exceptions to this deadline.** You are advised to complete and submit your application ahead of the deadline to allow for any unforeseen problems.

**Please note:** All applicants who do not already hold a National Training Number (NTN) or Deanery Reference Number (DRN) in the GMC specialty to which they are applying for will be required to undertake the national clinical recruitment process and attend an assessment/interview for that GMC specialty as appropriate.

Interviews will be held at Health House in Hull on either 3<sup>rd</sup>, 10<sup>th</sup> or 12<sup>th</sup> December 2018. The specific date will be published on the Oriel system as soon as it is known.

## **Appendix 1: Further particulars – Hull York Medical School**

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The Hull York Medical School (HYMS) is a collaboration between the Universities of Hull and York and the NHS. HYMS operates from both University campuses and within teaching hospitals and medical practices throughout the Yorkshire and Humber region. Having recently celebrated its 10th anniversary, HYMS is a relatively young medical school which is developing a growing reputation for its teaching and research.

HYMS has a strong reputation as an undergraduate medical school. Our innovative curriculum includes an enquiry-based approach to learning, early clinical experience, balanced teaching across all health sectors and a wide range of student selected learning opportunities. Our graduates are recognised as being very capable Foundation Doctors, many of whom have stayed locally to help develop health care services in this area.

The quality and impact on health and patient care of research carried out in the Hull York Medical School (HYMS) was recognised by the University of York's ranking as 7th in the country for Public Health, Health Services and Primary Care in the national Research Excellence Framework 2014. HYMS researchers were also part of York's top-10 rated submissions in Biology and Psychology. Across the whole of HYMS, a partnership between the Universities of Hull and York, over 85% of research was assessed as world leading or internationally excellent.

Within the Universities, research development in HYMS has been based on a distributed model, in which academic staff may have a research base in a cognate academic department of the University of Hull and/or York, providing scientific integration, critical mass and technology platforms with which to work. In relation to clinically orientated research there is a Clinical Research Facility (the Daisy Building) in Hull at Castle Hill Hospital and an Experimental Medicine Unit at York Hospital, to facilitate translational research. HYMS also plays a role in establishing and facilitating research networking between NHS partners in the region through topic based regional meetings.

The area covered by the HYMS NHS partnership comprises Hull and the East Riding of Yorkshire, York and North Yorkshire, and Northern Lincolnshire, which together have a population of around 1.8 million. 17 NHS organisations make up the HYMS NHS partnership, within which there are over 600 consultants and 900 general practitioners. Encompassing both rural and urban populations, the region contains a variety of environments in which health services are delivered. There are areas of considerable deprivation, not only in urban centres, but also in patches across the rural hinterlands. Heart disease and lung cancer are severe problems in Hull. Measures of overall health in North Lincolnshire are poorer than the country as a whole. However, in most of the region, rates for infant mortality and most disease-specific death are well below national averages, the prevalence of smoking and drug use are low, and the uptake of screening is high in many areas.

East Yorkshire with its homogenous and stable population of 600,000 is an ideal centre for prospective observational and interventional clinical research: the central urban area of Kingston upon Hull has a population of 350,000. The NHS clinical facilities are well developed and virtually comprehensive across the medical and surgical disciplines; only certain transplantation and cardiac neonatal surgical procedures require distant referral. Hence there exists a wealth of clinical material available for approved educational and research purposes.