# Job Description

# NIHR Academic Clinical Fellowship in Multimorbidity at Any Age

# Infectious Diseases ST3 (1 post)

The University of Sheffield, in partnership with Health Education England Yorkshire and the Humber and the Sheffield Teaching Hospitals NHS Trust, has developed an exciting pathway for academic clinical training opportunities.

Applications are now invited for an Academic Clinical Fellowship in Infectious Diseases at ST3 level. This new post has been created as part of the Health Education England (HEE)/National Institution for Health Research programme of Integrated Academic Training and offers candidates a comprehensive experience of clinical academic medicine working alongside internationally renowned clinicians and researchers in multimorbidity.

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 Diseaseswill be run by the University of Sheffield, the Sheffield Teaching Hospitals NHS Trust and Health Education England Yorkshire and the 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 each year to support research training activity (e.g. to attend academic conferences).

ACF trainees will be supported to develop and submit an external funding application for a research training fellowship in a field that aligns with the NIHR Multimorbidity theme to enable them to complete a higher degree (PhD or research MD) following the completion of their ACF fixed-term post. If successful, this fellowship would be completed during Out-of-Programme Research (OOPR) time.

All Academic Clinical Fellowships are run-through posts, regardless of specialty, with the exception of ‘Medical Education’ ACFs.  A trainee entering ACF in a specialty during 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.

**PLEASE NOTE: ST3-level applicants –** posts that will go on to dual specialise with general internal medicine (GIM) can only consider applicants who hold a Deanery Reference Number and are in the penultimate year of Internal Medical Training (CT2) or ACCS acute medicine (CT3). There is no need to be clinically benchmarked if you only wish to be considered for this option. Applicants wishing to be considered for combined infection training programmes which will not dual specialise with GIM (Group 2 specialties), will need to apply to the clinical ST3/ST4 Combined Infection Training vacancy and attend a benchmarking interview to confirm any offer made.

Trainees currently in the penultimate year of their core programme who are successful in gaining an ST3-level ACF programme that dual specialises with GIM will start their first year by completing IMY3. Assuming internal medicine stage 1 is completed successfully, they will then run-through into their higher specialty at ST4-level.

Run-through status is withdrawn if ACFs do not complete the initial 9-month academic component.

# POST DETAILS

## 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**

Sheffield Teaching Hospitals NHS Foundation Trust.

The SYRDITM, together with the Department of Genito-urinary Medicine, forms the Communicable Diseases Directorate. Communicable diseases also forms an academic directorate within the STH Academic Directorate of Specialised Medicine

The SYRDITM is one of the largest infectious disease units in the country and consists of 10 substantive NHS consultants and one specialty doctor, including joint posts with virology, acute medicine at STH, microbiology at the Royal Derbyshire and sexual Health in Rotherham. In addition, 4 academic consultants participate in ward and outpatient activity in rotation throughout the year. Current trainees in the Department include 20 infectious disease specialty registrars, which include one academic clinical lecturer and three academic clinical fellows. All training places are joint appointments with a second specialty: ID/Microbiology, ID/Virology or ID/GIM. At any one time a number of trainees are on placement out-of-programme completing higher degrees or clinical leadership fellowships.

SYRDITM has strong links with the Directorate of Laboratory Medicine comprising 8 NHS medical microbiology consultants, who work across NGH, RHH and Weston Park (oncology) Hospital. In addition, there are two consultant microbiologists based at Sheffield Children’s Hospital, who participate in the on-call rota as the laboratory at NGH processes samples from all 4 centres in addition to the considerable community workload. There are 5 NHS clinical virology consultants based at NGH, supporting the regional virology service. There are also good links with Public Health Medicine (PHE).

SYRDITM has close co-operative links with the Department of GU Medicine. HIV care is delivered locally by both specialities through the Stonegrove centre and in concert with the South Yorkshire HIV network which involves regional GUM departments. In-patient HIV care is delivered jointly by ID specialists in the SYRDITM.

Major strengths of training in the SYRDITM include local expertise in community-acquired infection, tuberculosis, HIV, viral hepatitis, imported infections, infections in immunocompromised hosts, travel medicine, vaccines and clinical trials. The OPAT (outpatient parenteral antibiotics therapy) unit is one of the largest in the UK. The unit is one of five UK centres for High Consequence Infectious Diseases (HCID) management and a regional hub for hepatitis C and multi drug resistant TB management. This is reflected by the numerous specialist clinics offered, active clinical trial, translational and basic science research programmes and representation and leadership on national and international platforms.

**NHS Consultants in the Departments of Infectious Diseases and Microbiology**:

Infectious Diseases

Prof ST Green Director, Clinical Directorate of Communicable Diseases and Specialised Medicine, Consultant Physician & Hon Professor, Sheffield Hallam University

Dr B Stone Clinical Lead for SYRDITM &Consultant Physician

Dr J Greig Consultant Physician, Director Stonegrove Centre

Dr A Tunbridge Consultant Physician, Training Programme Director

Dr K Cartwright Consultant Physician, OPAT lead

Dr R Foster Consultant Physician in ID and Acute Medicine

Dr J Aberdein Consultant Physician in ID and Acute Medicine

Dr J Cole Consultant Physician in ID and Acute Medicine

Dr OC Durojaiye Consultant Physician (50% with Derby Teaching Hospitals)

Dr D Cohen Consultant Physician

Dr Rasha Omer Speciality Physician

Medical Microbiology

Dr Helena Parsons Clinical Lead

Dr Laura Prtak Microbiology/Virology Training Programme Director

Dr Rob Townsend

Dr David Partridge Research lead for Laboratory Medicine

Dr Lisa Ridgway Chair, Hospital Infection Society

Dr Gayti Morris Joint post with Sheffield Children’s Hospital

Dr Christine Bates Director of Infection Prevention and Control

Dr Sarah Thompson Sheffield Children's Hospital

Dr Gemma Wheldon

Dr Emma Boldock

Clinical Virology

Dr Mohammad Raza Clinical Lead,

Dr Alison Cope Director of Medical Education

Dr Cariad Evans

Dr Mike Ankcorn

Dr Anupama Mutagi

## Research institution in which training will take place

Thefellowship will be hosted by Department of Infection, Immunity and Cardiovascular Disease within the University of Sheffield’s Faculty of Medicine, Dentistry and Health in a partnership with the South Yorkshire Regional Department of Infection and Tropical Medicine (SYRDITM) and the Departments of Microbiology and Virology and Genitourinary Medicine at Sheffield Teaching Hospitals NHS Foundation Trust (Royal Hallamshire Hospital and Northern General Hospital sites).

IICD contains units focused on host pathogen interactions and global infection health. Researchers from infectious diseases, microbiology, respiratory medicine and gastroenterology working mainly on mucosal infections comprise the ‘infection’ theme Research in the theme employs cutting-edge techniques in *in vitro* and *in vivo* studies with a variety of pathogens performed across species ranging from fish to man. The research interests of the node range from basic science to clinical infection, with a particular focus on molecular and cellular pathogenesis, innate and acquired immunity.

Within the infectious diseases academic team, there is currently a specific interest in translational biology using healthy volunteer models of cutaneous and lung inflammation as well as the use of samples from patients with HIV, chronic lung diseases or vaccine recipients. These models include the use of human challenge studies to address specific host-pathogen interaction questions in additional to their use in the discovery, evaluation and development of vaccines, diagnostics and therapeutics.

A key strength in Sheffield infection research is our cross faculty and interinstitutional collaboration and all IICD infection academics are also members of the Florey Institute: <http://www.floreyinstitute.com>. Encompassing scientists from Molecular Biology and Biotechnology, Physics, Animal and Plant Sciences, ScHARR and STH, The Florey has a strong focus on *S. aureus*, *S. pneumoniae* and *S. pyogenes* pathogenesis, antimicrobial resistance, including in Gram-negative pathogens, nosocomial infection and control and influenza and HIV-1/2. There is specific interest and expertise in understanding how viral infections interact with core bacterial infections and how this regulates inflammatory pathways. Molecular microbiology focuses on bacterial signal transduction systems, regulation of glycosylation, secretion systems and the identification of novel virulence determinants and vaccine targets.

Department specific educational activities include a popular regular seminar series and weekly Department Research in Progress (DRiP) meetings. The fellow would also join the Florey Institute’s programme of seminars, public engagement and cross-faculty collaborative activities.

IICD is highly research active but also contributes substantially to the school’s teaching activities. In addition to teaching infectious diseases and medical microbiology to medical and dental students, members of the department train and supervise clinical (MD/PhD) and non-clinical fellows and graduate students (PhD/MSc). IICD receives a high level of funding from the Wellcome Trust, MRC, BBSRC, NIHR and research charities.

The department is well equipped with laboratory space, facilities and technical staff, and all academics have access to core facilities including sequencing, proteomics, expression analysis, confocal microscopy, multi-channel FACS, category 3 laboratories, a clinical research facility, and mathematical/statistical support.

**Key Personnel of the Department of Infection, Immunity & Cardiovascular Diseases**

Professor Tim Chico Head of Department

Academics in Infectious Diseases and Infection Theme

Prof. S Rowland-Jones Florey Professor in Infectious Diseases and Honorary Consultant Physician, Lead Infection Theme

Dr P Collini Honorary Consultant Physician

Dr T Desilva Senior Lecturer and Honorary Consultant Physician

Dr T Darton Senior Lecturer and Honorary Consultant Physician

Dr Ruth Payne NIHR Clinical Lecturer in Infectious Diseases & Microbiology

[Professor Colin Bingle](https://www.sheffield.ac.uk/iicd/profiles/bingle) Professor of Respiratory Cell and Molecular Biology

[Dr Mark Thomas](https://www.sheffield.ac.uk/iicd/profiles/thomas) Senior Lecturer in Microbiology

[Dr Jon Shaw](https://www.sheffield.ac.uk/iicd/profiles/shaw) Reader in Microbiology

## Academic Clinical Fellowship Training Programme

**Objectives of the Training Programme**

1. To continue clinical training in infectious diseases with a second specialty from ST3/ST4 level.
2. To undertake the NIHR Research Training Programme in research methodology through the MRes.
3. To identify an area of academic and clinical interest in infection that aligns with the NIHR Multimorbidity research theme theme, upon which to base an application for an externally-funded PhD/MD application (or post-doctoral training fellowship if already holding a PhD).

**Relationship between Academic and Clinical Training**

The clinical programme is designed to provide training from ST3/ST4 level through to completion of CCT. In the first two years the successful candidate will rotate through the departments of infectious diseases, microbiology and virology to complete ‘Core Infection Training’. During the first 3 years of the ACF programme, the candidate will conduct a 9 month research attachment, during which time there is no out of hours on-call commitment. After progression to Higher Specialist Training, time will be split between ID and the second speciality: internal medicine, microbiology or virology.

All components of the clinical infection training are based at STH on either the Royal Hallamshire or Northern General sites; occasionally internal medicine attachments are undertaken in other hospitals in South Yorkshire and microbiolgy/virology training posts will also be completed at the Sheffield Children’s Hospital.

Academic trainess will be based in the Department of Infection, Immunity and Cardiovascular Disease in the Medical School on K/L floor of the Royal Hallamshire Hospital tower block. Laboratory facilities and the STH Clinical Research Facility are located nearby. Additional work or projects may be undertaken in other university departments including the Department of Molecular Biology and Biotechnology based in Firth Court on Western Bank.

## Research Protected Time:

**MAIN ACTIVITIES & RESPONSIBILITIES:**

This is a 3-year full-time training post carrying an NTN(A) in Infectious Diseases, with run-through to completion of CCT.

The successful applicant will have evidence of academic achievement and ideally have research experience and an intercalated BSc. They should be aiming to pursue a career in academic infectious diseases.

**Research Component**

Multimorbidity at Any Age and Infection research

The successful candidate will be expected to develop an area of research interest that aligns with the NIHR Multimorbidity at Any Age theme and apply for a research training fellowship during the course of this post. This will be done in consultation with Dr Paul Collini and colleagues. The post holder will join the clinical infection research group (CIRG) of senior clinical academics in infection, the existing NIHR academic clinical lecturer and three academic clinical fellows, post doctoral research associates, PhD and MSc students and technical team.

Academics in Sheffield have research interests in both directions of the relationship between multimorbidity and infection; Dr Collini and Prof Rowland-Jones focus on chronic lung disease and other morbidity that arises in people with chronic infections (HIV, CMV, TB). Particular interests are obstructive airways disease in people with perinatally acquired HIV (in partnership with Sheffield’s world’s leading advanced pulmonary imaging centre using hyperpolarised gas MRI), models of service provision for managing **age** associated comorbidities in people living with HIV (in partnership with Sheffield Hallam University)and long term lung health following pulmonary tuberculosis (in partnership with the Academic Unit of Primary Care [Dr Shamanthi Jayasooriya](https://www.sheffield.ac.uk/medicine/people/aume/shamanthi-jayasooriya), [Dr Caroline Mitchell](https://www.sheffield.ac.uk/medicine/people/aume/caroline-mitchell) , and the Sheffield Deep End NIHR Cluster Research network of 66,000 patients in 9 practices in the most ethnically diverse and also socio-economically deprived areas of the city). Questions about infection risk and prevention in people with chronic morbidity associated with malignancy and its treatment are investigated too; Dr de Silva has an interested in vaccination strategies following haematological stem cell transplant (in partnership with the Department of Haematology) and at The university’s flagship Healthy Lifespan Institute (HELSI) a is exploring the toxicities and risks of immune pathway disruption by Immune check-point inhibitors (ICI) for elderly cancer patients.

**Report to:** Dr Paul Collini and chosen academic supervisors.

**Successful candidates:**

The exit from this post will typically be to an externally funded research fellowship, leading to award of a PhD and subsequently application either for an academic clinical lecturer post and/or a Clinician Scientist Fellowship.

**Unsuccessful candidates:**

If the post-holder does not achieve the expected clinical competencies, this will be handled in the same way as for all other trainees in speciality medicine.

If the post-holder is unsuccessful in obtaining research funding (or fails to achieve academic competencies) they would be anticipated to return to a clinical training post. This will be discussed in good time with the Training Programme Director for Infectious Diseases through the system for appraisal and mentoring of academic trainees. Whilst no guarantee of an appropriate post is possible, every effort will be made to accommodate such individuals within the local training schemes.

## Clinical Component

The specialty of Infectious Diseases provides the opportunity for a career including challenging and constantly varied clinical scenarios to intellectually stimulating research into diseases of major global significance. Training in this specialty has the advantages of a clearly objective-based curriculum and offers dual programmes in Infectious Diseases combined with training in General Internal Medicine, Medical Microbiology, or Virology. Additional training is included as appropriate in Intensive Care, Genitourinary Medicine, and Public Health Medicine.

The essential (generic) training tracks in the curriculum are designed to produce competency in:

* Community-acquired infection and its management,
* Geographic and travel medicine,
* The management of immunocompromised patients including HIV/AIDS,
* Antimicrobial therapy,
* Management of hospital-acquired infection including infection in the Intensive / High dependency setting,
* Understanding of the role of microbiology services in the management of infection,
* Research methodology and its application to clinical practice,
* Various optional subjects such as virology, clinical pharmacology, public health, epidemiology, vaccinology and international work.

The challenge to rationalise antimicrobial use in the light of increasing resistance, to combat clinical problems of healthcare-acquired infection and worldwide pandemics of HIV, hepatitis and malaria and to respond to emerging infection problems such as MERS CoV, and epidemics of infections like Ebola makes infectious diseases an exciting and ever-changing specialty central to maintaining good local, national, global and planetary health.

**Teaching**

The post holder will contribute to the undergraduate and postgraduate teaching programmes of the University of Sheffield Faculty of Medicine, Dentistry & Health and will also be involved with the assessment of students and have personal mentoring responsibilities for a small group of students on the MBChB programme.

**Accommodation and support for the post**

Office space will be made available within the academic department. Laboratory space will be made available as required.

# CONTACTS

## Academic Leads and Contacts

**Academic Lead for Infectious Diseases:**

Dr Paul Collini

Senior Lecturer & Hon Consultant Infectious Diseases

Florey Institute & Department of Infection, Immunity and Cardiovascular Diseases (IICD),

Room LU108, University of Sheffield Medical School,

Beech Hill Road, Sheffield S10 2RX

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**Director of Clinical Academic Training, Sheffield Medical School & South Yorkshire and Humber Deanery:**

Professor Dilly Anumba

Chair of Obstetrics and Gynaecology

Honorary Consultant in Obstetrics & Gynaecology/Subspecialist in Fetomaternal Medicine

Department of Human Metabolism

Academic Unit of Reproductive and Developmental Medicine

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**Deputy Head of School (South):**

Dr Trevor Rogers

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**Training Programme Director, Infectious Diseases (clinical):**

Dr Anne Tunbridge,

anne.tunbridge1@nhs.net

# Further Information

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) page <https://www.nihr.ac.uk/explore-nihr/academy-programmes/integrated-academic-training.htm>

# Person Specifications

Applicants for this post will be required to meet the relevant Clinical eligibility criteria for the appropriate specialty and level listed at:-

*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):-*

<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

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/>

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

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

Applications open: 10.00 on 1st October 2021

Applications close: 16.00 on 3rd November 2021

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 online. Final dates will be communicated by Oriel.