

## Job Description

### NIHR Academic Clinical Fellowship

#### Radiology ST3 (1 post)

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The University of East Anglia (UEA), in partnership with Health Education East of England (HEEoE) and the Norfolk & Norwich University Hospital NHS Foundation Trust (NNUH), has developed an exciting pathway of academic clinical training opportunities.

Applications are now invited for an Academic Clinical Fellowship in Radiology at ST3 level. This new post is recognised 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 highly experienced clinicians and researchers.

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

This Academic Clinical Fellowship (ACF) programme in Radiology will be run by the University of East Anglia, Norfolk & Norwich University Hospital NHS Foundation Trust and HEEoE.

Academic Clinical Fellowships are 3 year fixed-term national training posts (ST3-5). 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 hold an honorary contract with UEA.

ACF trainees 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 ST3 specialty would therefore be guaranteed continued training to CCT in their 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 Run-through status is withdrawn if ACFs do not complete the academic component.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) – Radiology

### Duration of the Post

Up to 3 years (25% academic, 75% clinical) ST3-5

### Trust in which training will take place

Norfolk & Norwich University Hospitals NHS Foundation Trust

### Research institution in which training will take place

School of Medicine, University of East Anglia

### Research Protected Time

ACFs will have access to day release for protected research training in addition to their protected time for professional training. It will be used in two ways: first, to enable attendance on an accredited postgraduate programme in health research methodology run by the Faculty of Medicine, University of East Anglia throughout years 1 and 2 (extra 24 contact days plus additional private study to be completed over 2 years). The remaining research time will be available through day release during the whole 3 years to undertake supervised research at the Norfolk & Norwich University Hospital NHS Foundation Trust.

## ACF Training Programme: Research Component

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Research activity will be based at Norfolk & Norwich University Hospital NHS Foundation Trust. Fellows will be mentored and receive training in the principles and practice of Radiology research to prepare them for a career in academic Radiology, and will be strongly encouraged to register for a Masters-level research degree at UEA during the programme (e.g. MRes in Clinical Science; further details are available at the [UEA website](#)).

Successful applicants will be encouraged to build on existing research skills, develop new skills, and pursue a programme of research leading to publication in peer reviewed journals and presentation at international meetings. Fellows will be supported throughout the programme working towards the goal of attaining funding for a higher degree (PhD, MD) or placement on an equivalent academic PhD fellowship programme.

### Research Facilities

Imaging infrastructure at the Trust includes 4 multi-slice CT machines, two 1.5 Tesla MRI machines, a 3 Tesla wide bore MRI machine, a multi-slice SPECT-CT gamma camera. There is a BioImaging Research Laboratory on the Trust site with a range of post-processing workstations and software, as well as full access to the Norwich Radiology Academy facilities.

Fellows will also have access to computing and library facilities, including 300+ directly subscribed health care journals available electronically with 200+ print titles also available via UEA and local Trust libraries. There are dedicated research facilities available for biomedical research (through a bespoke £16.5M Biomedical Research Centre part funded by the Wellcome Trust) and a £3.5M Clinical Trials Research Unit managed in collaboration with the Trust, which has been awarded Provisional Registration status by the UKCRN. There is also leading medical statistics and health economics expertise within UEA, with individuals who will support the development of proposals and take an active role in funded projects.

## Research Projects and Supervisors

There are a range of projects available with research supervisors as listed below. Candidates interested in developing other research ideas are welcome to discuss these with potential supervisors, noting that we would be happy to consider interdisciplinary and collaborative projects.

### Dr John Curtin (Respiratory imaging)

- Automated computer analysis of follow-up CTs in patients treated for lung cancer.
- Effects of patient position and respiratory manoeuvres on coronary artery motion.

### Professor Erika Denton (Breast imaging / Health policy)

- Using artificial intelligence and computer aided diagnostic software in breast imaging interpretation and analysing mammographic reporting functions.
- There are further opportunities to join existing collaborations with the Universities of Salford and Aberystwyth.

### Dr Mark Lewis (Vascular imaging & intervention)

- TRICKS imaging in endoleak assessment: Performing time-resolved MR angiography to assess the appearance, location and type of endoleak in patients with an EVAR *in situ*.
- *In vitro* assessment of power injection through PICC/CVP lines: Creating a model for testing the haemodynamic effects of injecting into long PICCs and CVP lines.

### Dr Paul Malcolm (Gynaecological & urological imaging)

- Please contact Dr Malcolm for potential projects.

### Professor Andoni Toms (Musculoskeletal imaging)

- Textural analysis of subchondral bone in inflammatory arthritis.
- Textural analysis of Ultrashort TE MR in tendon degeneration.

### Dr Tom Turmezei (Musculoskeletal imaging / Quantitative image analysis)

- Defining imaging phenotypes of knee osteoarthritis with multimodal imaging.
- 3D mapping of changes in knee cartilage thickness over a 5 year period: a comparison between symptomatic and asymptomatic individuals.
- Does intra-articular mesenchymal stromal cell therapy alter knee cartilage thickness in patients with symptomatic knee osteoarthritis? (The ADIPOA-2 study)

- Identifying structural changes in subchondral bone using computed tomography in patients with unilateral knee osteoarthritis.
- Defining 3D morphological phenotypes of the whole hip joint.
- Dr Turmezei would also be pleased to consider co-supervision for any project involving quantitative 3D image analysis methods.

### **Key Imaging Research Staff**

In addition to project supervisors, the imaging research team includes of 4 research radiographers, led by Mrs Rebekah Girling (Radiology Research Manager, based at the Trust), Clinical Scientist Mr Bahman Kasmai (DICOM connectivity & post-processing, based at the Trust), and Professor Glyn Johnson and Dr Donnie Cameron (Clinical MR Physics, based at UEA).

### **New Research Facilities**

This is an exciting time for the UEA Medical School as it has opened a new £19M research and teaching building opposite the Trust A&E Department. This building provides state of the art laboratory and office space and facilitates joint working between the medical school and the hospital. Furthermore, a new research institute, The Quadram Institute, is being established in a new building which will be adjacent to the new medical school building. This £75M building is at an advanced stage of planning and will be fully open by mid-2018. Research at the Quadram Institute will work on innovative themes based on the science of food, the gut, microbes and public health.

## **ACF Training Programme: Clinical Component**

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This post is offered at ST3-5 level. The successful ACF will undergo core and higher level Clinical Radiology training co-supervised by the Norwich Radiology Training Program, part of the Eastern Deanery School of Radiology. The remit of the Training Program is to ensure the provision of an education of a consistent high quality across the HEEoE region, manage initial selection and subsequent allocation to appropriate placements. They will also provide induction (with the Trust), delivery of workplace-based assessments in accordance with the Royal College Radiologists curriculum, and contribute to joint annual review of competence progression (see below). The clinical training programme will be tailored to suit the needs of the trainee and will rotate through Clinical Radiology posts where the ACF will complete their clinical training.

The Norwich Radiology Training Program is one of three Radiology Academies. Set up in 2005, the academies offer a hybrid training model, including regular teaching in the Radiology Academy, based at the Cotman Centre, and the remaining days in clinical placement. Trainees rotate every 3 months through the subspecialties to gain competencies. All higher level radiology subspecialty training is offered except for Paediatric Radiology and Neuroradiology. Clinical attachments may involve training in one of the neighbouring District General Hospitals (James Paget, Ipswich, Colchester, Kings Lynn and West Suffolk Hospitals), depending on clinical subspecialty and programme.

Participation in the teaching of undergraduates and postgraduates is encouraged, either through the undergraduate radiology placement, or the Radiology Academy. The Academy is well-equipped with reporting stations, a training suite, lecturing facilities and a Mac Lab.

There will be joint annual reviews of competence progression (ARCPs), covering both academic and clinical training, conducted in accordance with Follett principles.

## CONTACTS

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### **Radiology ACF Director**

Dr Tom Turmezei

Consultant Radiologist, Norfolk & Norwich University Hospital NHS Foundation Trust

Honorary Senior Lecturer, University of East Anglia

Dr Turmezei would be pleased to receive all initial enquiries via [tom.turmezei@nnuh.nhs.uk](mailto:tom.turmezei@nnuh.nhs.uk)

### **Research Lead for Radiology**

Dr Paul Malcolm

Consultant Radiologist, Norfolk & Norwich University Hospital NHS Foundation Trust

Honorary Senior Lecturer, University of East Anglia

### **Radiology ACF Supervisors**

Dr John Curtin

Professor Erika Denton

Dr Mark Lewis

Dr Paul Malcolm

Professor Andoni Toms

Dr Tom Turmezei

All supervisors are Consultant Radiologists based at the Norfolk & Norwich University Hospital NHS Foundation Trust.

### **Radiology Training Programme Director**

Dr John Curtin

Consultant Radiologist, Norfolk & Norwich University Hospital NHS Foundation Trust

### **Educational Supervisor**

An educational supervisor will be appointed to the fellow as part of the usual clinical educational supervision scheme.

### **Academic Training Programme Director**

Professor Alastair Watson

Professor of Translational Medicine, University of East Anglia

[Alastair.Watson@uea.ac.uk](mailto:Alastair.Watson@uea.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](#)

The Royal College of Radiologists also offers guidance on ACF training, which can be found at <http://www.rcr.ac.uk/docs/radiology/pdf/ACF-Guidance.pdf>

## Person Specifications

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Applicants for this post will be required to meet the relevant **Clinical eligibility** criteria and level listed [here](#) and the **Academic eligibility** criteria listed [here](#), both also found on the Health Education England specialty training Person Specifications page at <https://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 East of England please visit <https://heeo.hee.nhs.uk/node/2601>

Applications open: **To be updated by recruitment team**

Applications close: **To be updated by recruitment team**

Expected start date: August 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.

Interviews will be held in Norwich during week commencing **To be updated by recruitment team**