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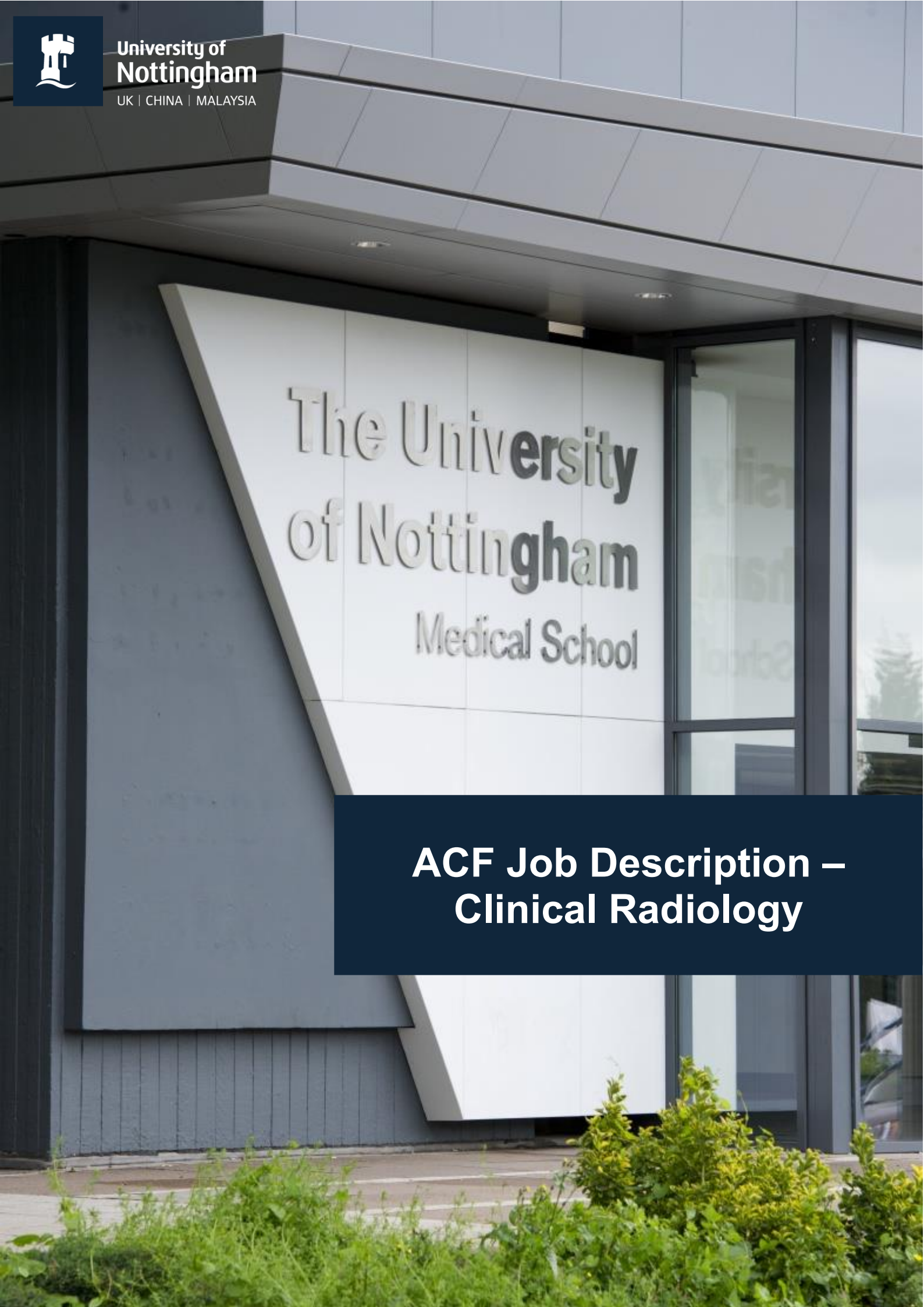

ACF Job Description – Clinical Radiology

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NHS England

NHS England

in partnership with the

University of Nottingham

Academic Clinical Fellow in Clinical Radiology

For appointment at ST1

Academic Clinical Fellowship in Clinical Radiology

This post is designed for a ST1 Resident Doctor who has ambitions to work in academic Clinical Radiology. The successful applicant will be awarded an Academic National Training Number (NTN/A) in Clinical Radiology.

Please note that candidates applying for this post will be competing with Paediatrics and Medical Oncology.

Applicants to ST1 level must apply via national recruitment to this specialty for Clinical Benchmarking.

Academic and Clinical Training in Clinical Radiology will be integrated, with focused time for academic development. Training will be provided in research methods including study design, data collection, use of statistics, computer skills, presentation and writing papers.

During the academic components of the post, and in particular during the 9 months of protected academic time within the 3 years, the successful applicant will undertake academic training and original research in an area of their research interest.

Radiological Sciences at the University of Nottingham

The Academic Components of the Academic Clinical Fellowship will take place in the Radiological Sciences research group at the University of Nottingham. (https://www.nottingham.ac.uk/research/groups/radiologicalsciences/index.aspx). The Radiological Sciences research group has an international reputation for research, innovation and teaching in clinical radiology, as well as a breadth of experience in academic and clinical training.

Radiological Sciences is part of the Academic Unit of Mental Health and Clinical Neuroscience in the School of Medicine (www.nottingham.ac.uk/medicine). Radiological Sciences are one of the main groups in the University of Nottingham Sir Peter Mansfield Imaging Centre (https://www.nottingham.ac.uk/research/groups/spmic/index.aspx), which is a collaborative research centre with state-of-the-art imaging facilities including whole body 7T MRI, wide bore and standard bore 3T MRI, upright MRI, dynamic nuclear polarisation and hyperpolarization MRI facilities and magnetoencephalography, and will soon host the national 11.7T MRI platform. Academic Radiology is located in Queen's Medical Centre. It comprises offices, state-of-the-art molecular biology laboratories, teaching, meeting and computer rooms.

The head of Radiological Sciences, Professor Dorothee Auer, leads the Magnetic Resonance and Precision Imaging theme in the NIHR Nottingham Biomedical Research Centre (BRC), and researchers in the group are closely involved in BRC projects in the areas of brain, musculoskeletal, respiratory and gastrointestinal imaging. These well-

resourced areas of research activity provide academic trainees with a rich and stimulating academic environment for developing their own research skills, peer networks and academic profiles.

In addition to its strong research focus the senior academic staff of Radiological Sciences supervise PhD students from medical and science backgrounds, train Clinical Lecturers and Academic Clinical Fellows and mentor academic Resident Doctors at all levels.

ACF in Clinical Radiology

Research opportunities

The ACF in Clinical Radiology will be supported by the Academic Programme Director to identify an area of research in medical imaging. Radiological Sciences in Nottingham offers a broad range of research opportunities in basic science, translational medicine, clinical studies, imaging and application of technology to patient care. During the 9 months of protected academic time, the ACF will have to opportunity to generate data, write up data for publication and prepare applications for PhD Fellowship funding with the supervision and mentorship of the senior academic staff of the Academic Unit.

Research opportunities include:

Research activity in the Radiological Sciences group covers a broad spectrum of neurological diseases and a wide range of and methodological approaches to medical imaging analysis. A strong theme within our research is the development and testing of imaging techniques to support individualised approaches to treatment, and we are particularly keen to support ACF projects involving application of artificial intelligence (AI) approaches to clinical imaging datasets for supporting early diagnosis and treatment. We recognise that academic radiologists are ideally placed to implement the translation of AI from the computer science lab to the clinical workplace.

The Radiological Sciences group have a strong track record in the imaging of brain diseases including neurodegenerative diseases, cerebrovascular disease, multiple sclerosis, brain tumours and central pain processing, and for imaging to guide and monitor the effects of interventions such as neuromodulation.

There is flexibility to tailor the research focus for this ACF post in Clinical Radiology to meet the interests of the successful applicant, provided it is in an area that can be supported by the group (in terms of access to equipment, expertise and data / patient cohort). The post will primarily focus on translation of advances in image acquisition and analysis to support precision imaging approaches. Medical images contain a vast number of datapoints, and conventional radiological interpretation only makes use of a fraction of the available data. Computational approaches to handling the huge amounts of data contained in medical images and in large cohorts (such as the UK biobank) allow radiomic and quantitative imaging phenotyping analyses to provide novel imaging diagnostic and prognostic markers. The Nottingham BRC MR & Precision Imaging group have a number of projects using these approaches, and the ACF will have access to methodology experts and large imaging datasets to pursue research in this area.

Academic time can be taken as day or block release. The successful candidate will discuss this with their Academic Programme Director at the start of the ACF, taking into account their clinical training requirements and academic project needs.

Teaching and Core Academic Skills

The Academic Clinical Fellow, like other specialty Resident Doctors, will participate in the teaching of undergraduate medical students and will contribute to the departmental journal

club and postgraduate programme. The successful applicant will receive training in teaching and learning methods.

Training in core academic competencies will also be provided by access to Masters Courses at the University, particularly Nottingham's N-Trans Course. There are also regular multidisciplinary research meetings where research methodology and work in progress are discussed, and a full postgraduate education programme.

Applicants are encouraged to discuss their areas of research interest with the Academic Programme Director Professor Rob Dineen, rob.dineen@nottingham.ac.uk, before the interview.

ACF in the Clinical Training Programme

The clinical training programme in Clinical Radiology

The successful candidate will undertake the Clinical Radiology clinical training programme in the North of the Health Education England area which is centred on Nottingham.

Applicants are invited to commence at ST1 level.

There are two training schemes within the East Midlands, based at Nottingham (North) and Leicester (South). Between the schemes we offer subspecialty training in all fields including Vascular and Non-Vascular Intervention, Cardiac Radiology, Neuroradiology (including Interventional Neuroradiology), Breast Radiology and Radionuclide Imaging (including PET).

This post is hosted by the East Midlands (North) Training Scheme based in Nottingham and the Clinical Radiology Training Programme Director is Dr Amy Gerrish. The programme takes between 9 and 14 entrants per year and a current total of 64 trainees. The Clinical Radiology Training Scheme provides training in all aspects of core diagnostic and interventional radiology, as well as a wide range of post-FRCR subspecialty training opportunities. During the five-year programme, trainees rotate mainly between the two campuses of Nottingham University Hospitals (NUH) but will have at least two training attachments at the Royal Derby Hospital, Sherwood Forest Hospital in Mansfield or the Chesterfield Royal Hospital. NUH is a Level 1 Trauma Centre and offers all advanced imaging technologies, including high-field MRI, MR perfusion and spectroscopy, PET/CT as well as advanced Vascular and Non-Vascular Intervention.

Clinical rotations are coordinated by the Clinical Training Programme Director and site-specific RCR College Tutors to address the clinical training needs of the successful applicant.

The Nottingham University Hospitals Trust (NUH) is devoted to clinical excellence and research and has recently been awarded an NIHR Biomedical Research Centre, building on its previous Biomedical Research Units (Hearing, Respiratory and Gastro-intestinal Medicine). MR Imaging is central to the Biomedical Research Centre. There are further priority areas at NUH which, in partnership with UoN, create excellent research opportunities for radiologists, especially in neurosciences, oncology and rehabilitation with our National Rehabilitation Centre.

At the end of the 3-year ACF post, the Academic Clinical Fellow will either move into a PhD post before continuing their clinical training or process/return directly to the clinical training programme. Pay will be in line with the 2016 Junior Doctor pay scales.

The Academic Clinical Fellow will gain experience in clinical radiology, and following satisfactory ARCP assessments, will rotate between posts within the programme. The clinical rotation gives excellent all-round training with opportunities in many subspecialties

within a relatively small geographical area. All the units involved in the rotations are renowned for their excellence in clinical care, teaching and support of their trainees, as well as for their friendliness.

Extra duty payments will be paid based on the rota associated with each clinical placement. If academic time is taken as block release, clinical out-of-hours duties are not usually undertaken in this time, which would result in cessation of these payments during academic block release.

On completion of the three-year Academic Clinical Fellowship, the post holder will either take up a Clinical Research Fellowship working towards a doctorate (later returning to clinical training) or, alternatively, may continue with full time clinical training to CCT within the clinical rotation.

Further information about the Clinical Training Programme may be obtained by contacting: The Clinical Radiology Training Programme Director: Dr Amy Gerrish, Consultant Radiologist, University Hospitals Nottingham NHS Trust, telephone: 0115 9691169, amy.gerrish2@nhs.net

See: Radiology | Health Education England East Midlands (eastmidlandsdeanery.nhs.uk)

Mentorship, Appraisal and Assessment

In addition to their research supervisor, the successful candidate will have an academic mentor who will be a senior clinical academic and who will provide support for all aspects of the Academic Clinical Fellowship. In addition, as for all clinical Resident Doctors, educational support for clinical training will be provided by an Educational Supervisor who will provide guidance and support in attaining clinical competencies and in the development of a personal e-portfolio. For each clinical attachment, the Resident Doctor will be allocated a Clinical Supervisor to assist them in attaining their clinical competencies. This will be complimented by the well-established Clinical Training Day Programme.

Completion of clinical training will be contingent on satisfactory appraisal of clinical competencies. Academic Clinical Fellows will undertake regular appraisals and an annual joint academic and clinical and assessment (Joint Clinical Academic ARCP) and competency-based assessments.

Personal Specifications

Applicants for this post should fit the both the academic person specification and the clinical person specification for the level of training. Both the academic and clinical person specifications can be found at https://medical.hee.nhs.uk/medical-training-recruitment/medical-specialty-training/person-specifications

Successful applicants will have **all** of the essential criteria listed in the person specification. Where different essential criteria in academic and clinical person specifications exist, successful applicants will have demonstrated the higher criteria.

Further information can be obtained from:

Academic Programme Director	**Prof Rob Dineen**	rob.dineen@nottingham.ac.uk
Training Programme Director	**Dr Amy Gerrish**	Amy.gerrish2@nhs.net

Clinical Academic Training Programme Team	**Harriet Delahoy & Katie Harrison**	ms-iatadmin@nottingham.ac.uk
NHS England	**Ms Marcia Reid**	https://nhs-help.freshdesk.com/support/home

The University's Clinical Academic Training Programme Deputy Director Professor David Humes is also available to provide advice, see website: www.nottingham.ac.uk/go/catp

Useful links

NIHR Resident Doctors website: https://www.nihr.ac.uk/explore-nihr/academy-programmes/integrated-academic-training.htm

Life in Nottingham: http://www.nottingham.ac.uk/studywithus/nottinghamlife/index.aspx

About the University of Nottingham and School of Medicine: https://www.nottingham.ac.uk/medicine/documents/school-of-medicine-further-information.pdf

Appendix 1:

Life in Nottingham

Central within the East Midlands, Nottingham is a vibrant and prosperous city with something to offer everyone. It is one of the UK's leading retail centres and has a huge variety of restaurants, bars and nightclubs, which attract people from all over the UK. Culturally, it has good theatres, an arena which attracts both national and international performers and a range of historical interests relating to subjects such as the lace industry, Lord Byron and DH Lawrence. Nottingham is also known for sport, being the home of Trent Bridge Cricket Ground, Nottingham Forest and Notts County Football Clubs, the National Water Sports Centre and the Nottingham Tennis Centre. There is a good network of roads with easy access to the M1 and the A1, a fast frequent rail service to London and other major cities. Nottingham East Midlands Airport is only eighteen miles away.

The city is set within a county of outstanding natural beauty, which includes Sherwood Forest, Wollaton Park, lively market towns and wonderful historic buildings. Housing is relatively inexpensive and, in addition to the two Universities, there are excellent schools and colleges available.

To find out more about Nottingham, use the following links:

Nottingham County Council – Tourism
https://www.visit-nottinghamshire.co.uk/

University of Nottingham
http://www.nottingham.ac.uk

Zoopla (Guide to local properties)
http://www.zoopla.co.uk/

My Nottingham (information on schools, term dates, school transport etc.)
http://www.nottinghamcity.gov.uk/education-and-schools/school-admissions/

Appendix 2: Nottingham University Hospitals NHS Trust (NUH)

Who we are

Nottingham University Hospitals (NUH) became established in 2006 following the merger of Nottingham City Hospital and Queen's Medical Centre (QMC).

We are proud to be part of the community, improving the health and wellbeing of people in Nottingham, Nottinghamshire and beyond.

With more than 19,000 colleagues and 750 volunteers, we are the largest employer in Nottinghamshire and one of the biggest and busiest NHS Trusts in the country. As a specialist centre for a range of national and internationally renowned services, including stroke, renal, neurosciences and cancer services, we care for people from across the East Midlands and beyond.

We deliver district general services to 2.5m residents of Nottingham, Nottinghamshire, and its surrounding communities. Our specialist services allow us to deliver care to 4.5m people from across the East Midlands and nationally for a handful of services.

- QMC is where our Emergency Department (ED), Major Trauma Centre and the Nottingham Children's Hospital are based. It is also home to the University of Nottingham's School of Nursing and Medical School
- Nottingham City Hospital is our planned care site, where our cancer centre, heart centre and stroke services are based, and where some of our emergency admissions units are located.
- Ropewalk House is where we provide a range of outpatient services, including hearing services.

We have a national and international reputation for many of our specialist services, including stroke, renal, neurosciences, cancer services, and trauma.

We are at the forefront of many research programmes and new surgical procedures. In partnership with the University of Nottingham, we host a Biomedical Research Centre carrying out vital research into hearing, digestive diseases, respiratory, musculoskeletal disease, mental health, and imaging.

As a teaching trust we have a strong relationship with our colleagues at the University of Nottingham and other universities across the East Midlands, including Loughborough University, where we are part of the Olympic Legacy project. We play a vital role in the education and training of doctors, nurses, and other healthcare professionals.

We have ambitious plans to improve our hospitals and the services we deliver for our patients. As well as the redevelopment of Nottingham City Hospital and the QMC, we are building a new NHS rehabilitation facility on the Stanford Hall Rehabilitation Estate near Loughborough, National Rehabilitation Centre (NRC) due to open this year.

Our vision and strategic objectives

Our vision for 2026-31 is to be outstanding in health outcomes and patient and staff experience.

Our purpose:

- **Providing high-quality care:** We are here to deliver safe, compassionate, and timely care that improves lives and puts patients first.
- **Educating and developing current and future staff:** We are here to grow and support our people through world-class education, training, and development opportunities.

- **Advancing practice through research, innovation, and quality improvement:** We are here to lead progress by driving research, embracing innovation, and continuously improving the way we care.

How will we get there?

- **Care:** Consistently provide the right care, at the right time, in the right place
- **People:** Deliver an outstanding experience for our people so they can deliver an exceptional experience for our patients
- **Innovation:** Be a centre of excellence where innovation and research shape the future of health and care
- **Resources:** Use our resources wisely and be a streamlined and efficient organisation delivering excellent experience and value

Our values

At NUH, we are committed to creating outstanding care and becoming an employer of choice. To achieve this, our values and behaviours serve as the guiding principles that shape our culture and define who we are. Our four values are:

- Kind – We are compassionate and caring to everyone.
- Inclusive – Everyone is welcome here.
- Ambitious – We continuously improve.
- One Team – We achieve more when we do it together.

Management arrangements in the Nottingham University Hospitals NHS Trust

NUH is managed via a structure of four key care groups:

- Medicine
- Surgery and Associated Services
- Family Health
- Specialist Clinical Services

There are also the Corporate Departments. Each care group is led their respective Clinical Care group leadership teams.

Conditions of service and governance

NUH is committed to the development of Clinical Governance. The approach taken is to develop actions plans at a directorate level. Each member of the medical staff is expected to take an active role in clinical governance activities within their care group, and each care group has a consultant nominated as Clinical Governance lead. The activities include (but are not restricted to) audit, incident reporting, review of complaints, risk management, CPD and Evidence Based Practice.

Professional standards

The Head of Service is managerially responsible for all activity and personnel in their speciality. They are accountable to a Clinical Director. The Medical Director and Responsible Officer Dr Manjeet Shehmar, has overall responsibility for the professional standards of consultants employed by NUH.

All consultants are expected to follow the guidelines on practice laid down by the General Medical Council's "Maintaining Good Medical Practice" and are accountable to the Trust for their actions and for their actions and for the quality of their work. There is annual review of Job Plans and annual Appraisal.

Appendix 3: Derby and University Hospitals of Derby and Burton NHS Foundation Trust

Derby

Derby is an historic city, which lies at the heart of some of England's most magnificent countryside. The Derbyshire Dales and the Peak District National Park are only a short drive away, with the spa towns of Ashbourne, Matlock and Buxton within easy reach. Southern Derbyshire has a population of approximately 570,000 and is well served by rail and road within easy travelling distance of the M1, M5, M6 and M42. The Nottingham East Midlands Airport is close by. The city offers a wide range of recreational amenities. The Assembly Rooms and Playhouse offer a wide variety of shows, concerts and productions to suit all tastes. Other nightlife centres around two multi-screen cinemas, various nightclubs, several traditional public houses and excellent restaurants in the city centre and throughout the county. There are various social and cultural facilities, museums, stately homes, castles, gardens and numerous places of historical and archaeological interest. There are first class facilities for sport enthusiasts within Southern Derbyshire including Derbyshire County Cricket Club and Derby County Football. Housing is both plentiful and reasonably priced, with a choice of country village settings and modern hustle and bustle of city life, with the larger cities of Nottingham and Leicester within easy access. There are many good schools, primary and secondary, both state and private.

To find out more about Derby, use the following links: Derby City Council www.derby.gov.uk

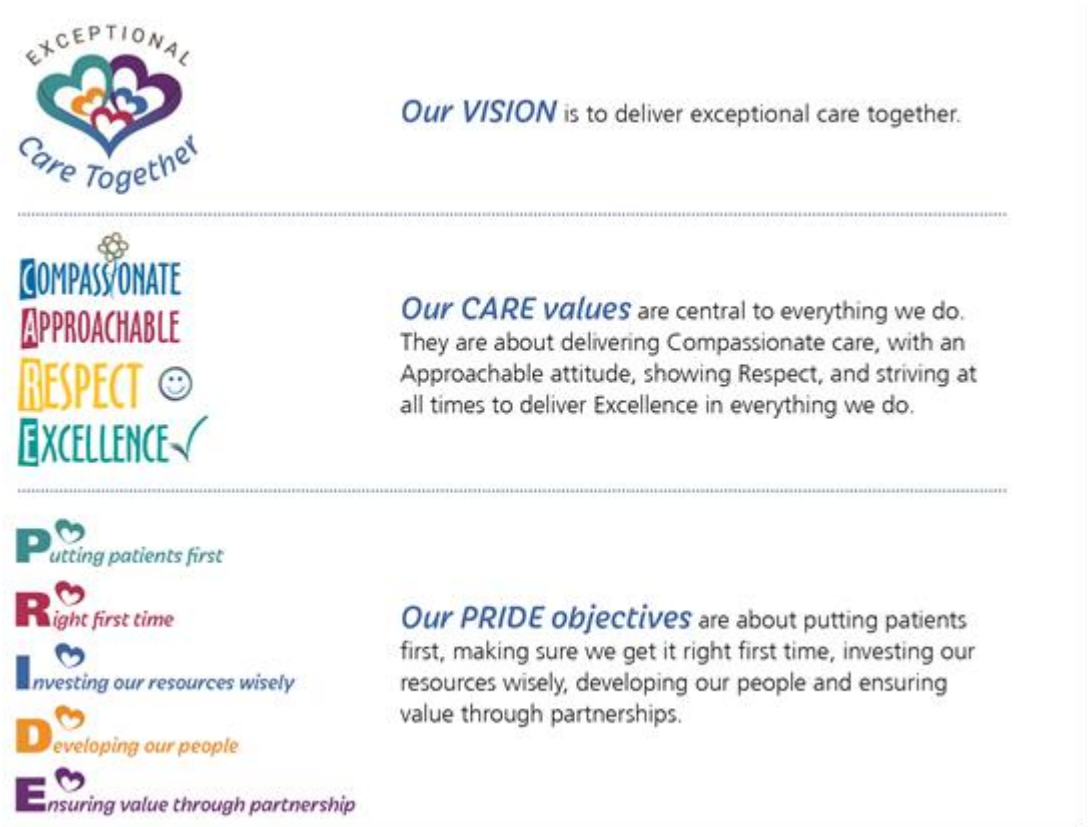
Zoopla (Guide to property in the local area) http://www.zoopla.co.uk/

University Hospitals of Derby and Burton NHS Foundation Trust

University Hospitals of Derby and Burton NHS Foundation Trust was formed on 1 July 2018 to bring together our five hospitals – in Derby, Burton, Lichfield, and Tamworth – to provide the highest quality care to patients across southern Derbyshire and South East Staffordshire.

The University Hospitals of Derby and Burton NHS Foundation Trust is one of the largest employers in the region with more than 12,000 staff and treats in excess of a million patients each year.

Our aim is to bring together the expertise of our 12,300 staff to provide the highest quality care to patients within Derbyshire and South-East Staffordshire. All our employees are expected to demonstrate the following behaviours: Compassion, Approachable, Respect, Excellence – the C.A.R.E. values:



Equality, Inclusion and Diversity
University Hospitals of Derby and Burton NHS Foundation Trusts is fully committed to promoting inclusion, equality, diversity and human rights in employment and delivery of its services. The Trust is committed to providing an environment where all employees, patients, carers, and visitors experience equality of opportunity by means of understanding and appreciating the value of diversity.

The Trust works to eliminate all forms of discrimination in line with the Equality Act 2010, and recognises that this requires, not only a commitment to remove discrimination, but also action through positive policies to redress inequalities. The Trust actively encourages its employees to challenge discrimination and promote equality of opportunity for all.

Employees of the Trust are required to comply with its policies and values around equality, inclusion, diversity, and human rights. Failure to do so will be treated as misconduct under the Trusts' Disciplinary Policy and Procedure, which may result in dismissal."

Freedom to Speak up
The Trust is committed to listening to our staff and learning lessons. There are a variety of ways in which concerns can be raised in person, by phone or in writing (including email). We also have a Freedom to Speak Up Guardian who works with Trust leadership teams to create a culture where staff are able to speak up in order to protect patient safety and empower workers. Full details can be found on the Trust Intranet.

Data Protection
Organisations are required to comply with the General Data Protection Regulations; the UK Data Protection Act 2018; all other data protection legislation and other local policies and procedures regarding the handling of information. All employees retain the right to request information held about them.

Confidentiality
The Trust requires all staff to maintain a high standard of confidentiality, and any disclosure of information outside the proper and recognised course of duty will be treated as a serious disciplinary offence.

Infection Control
The prevention and management of infection is a key priority for the Trust. As an employee of the Trust, you have a responsibility to:

- ensure that your work methods are compliant with the Trust's agreed policies and procedures and do not endanger other people or yourself
- be aware of infection prevention and control policies, practices, and guidelines appropriate for your duties and you must follow these at all times to maintain a safe environment for patients, visitors, and staff
- maintain an up to date knowledge of infection prevention and control, policies, practices, and procedures through attendance at mandatory training and on-going continuing professional development
- challenge poor infection prevention and control practices of others and to report any breaches, using appropriate Trust mechanisms (e.g. incident reporting policy).

Health and Safety at Work Act
All staff must not willfully endanger themselves or others whilst at work. Safe practices and precautions must be adhered to.

Smoke Free Trust
The smoke free policy applies to staff, patients, resident's visitors, and contractors.

Trust Policies and Procedures
All employees are expected to comply with appropriate Trust policies and procedures, to attend the Trust Induction Programme and to comply with mandatory training in relation to these policies and procedures.

Further Information
To find out more about the Trust, please visit www.uhdb.nhs.uk
To find out more about Derbyshire or Staffordshire please visit www.derby.gov.uk or www.enjoystaffordshire.com

Academic Clinical Fellowships at the University of Nottingham

