

**SHEFFIELD TEACHING HOSPITAL NHS FOUNDATION TRUST**

**JOB DESCRIPTION**

<b>Post Details</b>	ST4/ST5 Specialty Trainee in Diagnostic Neuroradiology
<b>Eligibility Criteria</b>	MBBS or equivalent medical qualification.
<b>Anticipated Outcome of Programme</b>	To be trained in all aspects of Diagnostic Neuroradiology.
<b>Main Conditions Of Service</b>	<p>This post is subject to:-</p> <ol style="list-style-type: none"> <li>a. The terms and conditions of service for Hospital and Dental staff (England and Wales).</li> <li>b. Full registration and a licence to practice with the General Medical Council (London)</li> <li>c. Medical fitness</li> <li>d. Enhanced DBS Check. Please note that wef 1 April 2011 all charges associated with this will be passed onto the employee.</li> </ol> <p><b><u>Salary Scale</u></b></p> <p>The current nationally agreed payscale for this grade is payable.</p> <p>The posts are available as follows:</p> <p>As soon as possible for 2 years duration :- 2 years if entering at ST4 1 Year if entering at ST5</p>
<b>Employer/ Recruiting Organisation</b>	Sheffield Teaching Hospitals NHS Foundation Trust

**Document Updated:**

**By:** ..... **Date:** .....

# **ST4/5 SPECIALTY TRAINEE IN DIAGNOSTIC NEURORADIOLOGY - ROYAL HALLAMSHIRE HOSPITAL**

## **JOB DESCRIPTION**

### **GENERAL INFORMATION**

The departments of Neurosurgery, Neurology and Neuroradiology are situated at the Royal Hallamshire Hospital and serve a population of approximately 2.2 million people including South Yorkshire, North Derbyshire, North Lincolnshire and Bassetlaw.

The hospital adjoins the University of Sheffield Medical School, with the main University Medical Library located within the hospital. The main University campus is only a short walk away from the Hallamshire Hospital.

The Department of Neuroradiology is situated within the main Radiology department on 'C' floor at the Royal Hallamshire Hospital.

### **ORGANISATION PROFILE**

Sheffield Teaching Hospitals NHS Foundation Trust is one of the UK's busiest and most successful NHS foundation trusts. We provide a full range of local hospital and community services for people in Sheffield, as well as specialist care for patients from further afield, including cancer, spinal cord injuries, renal and cardiothoracic services. In addition to community health services, the Trust comprises five of Yorkshire's best known teaching hospitals.

- The Royal Hallamshire Hospital
- The Northern General Hospital
- Charles Clifford Dental Hospital
- Weston Park Cancer Hospital
- Jessop Wing Maternity Hospital

The Trust has a history of high quality care, clinical excellence and innovation in medical research. The Trust has been awarded the title of 'Hospital Trust of the Year' in the Good Hospital Guide three times in five years and we are proud to be in the top 20% of NHS Trusts for patient satisfaction.

We strive to promote a culture of continuous quality improvement and encourage our staff to innovate and adopt 'best practice' in order to deliver the highest standard of care to our patients.

The Northern General Hospital is the home of the City's Accident and Emergency department which is one of three adult Major Trauma Centres for the Yorkshire and Humber region. A number of specialist medical and surgical services are also located at the Northern General Hospital including cardiac, orthopaedics, burns, plastic surgery, spinal injuries and renal to name a few.

A state-of-the-art laboratories complex provides leading edge diagnostic services. The hospital also provides a wide range of specialist surgery such as orthopaedic, spinal cord, hand and kidney transplantation.

The Royal Hallamshire Hospital has a dedicated neurosciences department including an intensive care unit for patients with head injuries, neurological conditions such as stroke and for patients that have undergone neurosurgery. It also has a gastroenterology department, a large tropical medicine and infectious diseases unit as well as a specialist haematology centre and other medical and surgical services.

Sheffield Teaching Hospitals is home to the largest dental school in the region, a maternity hospital with a specialist neonatal intensive care unit and a world renowned cancer hospital. The Trust is also integrated with the City's adult NHS community services to support our work to provide care closer to home for patients and preventing admissions to hospital wherever possible.

We have a long tradition of clinical and scientific achievement, including the development of one of the UK's first Academic Health Sciences Networks.

Through our partnerships with the University of Sheffield, Sheffield Hallam University, other health and social care providers and industry we remain at the forefront of advancements in clinical services, teaching and research.

We have around 15,000 employees, making us the second biggest employer in the city. We aim to reflect the diversity of local communities and are proud of our new and existing partnerships with local people, patients, neighbouring NHS organisations, local authority and charitable bodies.

We strive to recruit and retain the best staff: the dedication and skill of our employees are what make our services successful and we continue to keep the health and wellbeing of our staff as a priority.

Our vision is to be recognised as the best provider of healthcare, clinical research and education in the UK and a strong contributor to the aspiration of Sheffield to be a vibrant and healthy city. We have begun this journey with our staff, partners and patients and we will continue to explore every aspect of our business to ensure we are doing our very best to achieve our vision.

## **PROUD VALUES**

These are the values that all staff at Sheffield Teaching Hospitals NHS Foundation Trust are expected to demonstrate in all that they do.

**Patients First** – Ensure that the people we serve are at the heart of what we do

**Respectful** – Be kind, respectful, fair and value diversity

**Ownership** – Celebrate our successes, learn continuously and ensure we improve

**Unity** – Work in partnership with others

**Deliver** – Be efficient, effective and accountable for our actions

For further details of our services and organisational structure, including our Board of Directors, and our future plans please visit [www.sth.nhs.uk/about-us](http://www.sth.nhs.uk/about-us)

## **CONDITIONS OF SERVICE**

The successful applicant will be expected to be close to sitting or have obtained the final FRCR and be available to commence subspecialty training at the beginning of year 4 or 5. The post will have a minimum duration of 18 months to fulfil the RCR training requirements for a Consultant Neuroradiologist. The duration of the post may alter dependant upon previous experience. The post has RCR approval for Neuroradiology subspecialty training. The post is covered by the Terms and Conditions of Service of Hospital Medical and Dental Staff. The successful applicant will be required to undergo a medical examination before taking up the post.

## **Facilities for Neurosurgery, Neurology and related specialities**

Currently there are seventeen Consultant Neurosurgeons in Sheffield with special interests including neuro-oncology, skull base surgery, pituitary surgery, epilepsy, paediatric surgery, functional surgery for Parkinson's disease and neurovascular disease.

There are twelve Consultant Neuroanaesthetists, who in addition to supporting theatre, interventional, MRI and diagnostic services play an important role in managing the neurosurgical high dependency unit.

There is a comprehensive Neurophysiological service with five Consultant Neurophysiologists and a dedicated Neuropathology service.

There are presently forty-eight NHS Consultant Neurologists with an Academic Unit headed by Prof. Pam Shaw. Regular clinics are held in the Royal Hallamshire and Northern General Hospitals as well as many surrounding District General Hospitals.

Sheffield has been the base for the National Centre for Stereotactic Radiosurgery since 1985, treating approximately 600 patients/year. Four Consultant Neurosurgeons, with a special interest in Radiosurgery, lead the work as well as a strong team of neuroradiologists, physicists, technicians and radiographers. A second gamma knife 'Perflexion' was installed in 2011. There is a strong link with neuroradiology.

Neuroradiology also enjoys close links with the departments of Ophthalmology, ENT, paediatric neurology and adult/paediatric Neuro-Oncology (Royal Hallamshire, Weston Park and Sheffield Children's Hospitals) with weekly MDTs and clinicoradiological conferences for all of these departments. Sheffield is the regional centre for head & neck cancer treatment.

Sheffield Children's Hospital is one of England's four large separate Children's hospitals. There are currently 5 paediatric neurosurgeons, 7 paediatric neurologists and 4 paediatric neuro-oncologists. There is a weekly paediatric neurosciences MDT. In 2015 an intra-operative 3T MRI scanner was installed and in 2017 the pre-existing 1.5T MRI scanner was replaced. A new interventional fluoroscopy suit has also recently been installed. There are longstanding and very strong links with the Academic Unit of Radiology at the University of Sheffield.

### **Neuroradiology in Sheffield**

The specialty was established in 1952 and is currently located in the main Radiology department and the Section of Academic Radiology in the Royal Hallamshire Hospital on C Floor. The neuroradiology service is provided by 8 Consultant Neuroradiologists, the Professor of Academic Radiology and a Professor of Neuro-radiology along with between 2 and 3 neuroradiology fellows & rotational STR(s). Neonatal and fetal neuro-imaging services are provided by the Academic Department. The Neuroradiology Department provides interventional services for South Yorkshire, an approximate population of 2.2 million. There are close links between the radiology departments in Sheffield and those in the surrounding districts.

Regular clinical-radiological conferences are held at the Royal Hallamshire Hospital; including a daily, morning review of all on-call neuro admissions. Neuroradiologists also participate in clinical case presentations and multi-disciplinary team conferences.

Acute stroke services are entirely located at the Royal Hallamshire Hospital with an acute thrombolysis / thrombectomy service and patients triaged directly to the Hallamshire by the paramedics.

There is close liaison with the Radiology Department in the Sheffield Children's Hospital in order to ensure the availability of specialist expertise in the management of paediatric neurological patients.

There is joint reporting of CT scans. The department also enjoys close links with other Radiology Departments, both within Sheffield & the surrounding DGHs

### **The Department of Radiology at the Royal Hallamshire Hospital**

There are 4 MR scanners with neuro cases being scanned on all MR scanners in the Trust (including NGH and WPH). This extensive fleet of high specification MR scanners provide excellent clinical and research opportunities. All advanced neuroimaging techniques, e.g. perfusion/diffusion MRI, MR spectroscopy, functional MRI, DTI, tractography, echo planar imaging and dynamic MR digital subtraction angiography are performed.

The nearby Childrens Hospital has recently installed an intraoperative 3T MR scanner and recently replaced the pre-existing 1.5T scanner. The NHS neuroradiologists enjoy a close working relationship with the Academic Section of Radiology and also have strong research links. A PET-MRI unit has been installed at the Royal Hallamshire Hospital and research related imaging has now commenced.

**There are two multislice CT scanners**, one Canon medical system scanner Aquilion PRIME and one Canon medical system One Genesis Edition 16cm detector scanner (both commissioned in 2016) at Royal Hallamshire Hospital. The CT scanners are capable of excellent quality CT cerebral angiography and spinal imaging whilst the 16cm detector scanner is ideally suited to perfusion imaging.

There are **two angiography units** which were installed in 2013. A Biplane Philips Allura Clarity FD2010 system and a Single plane Philips Allura Clarity FD20. Both units have 3D road map capabilities and are ideally suited for neurovascular procedures. There are fixed general anaesthetic sessions for neurointervention procedures. Excellent support is provided by the department of neuroanaesthesia and extra emergency sessions can usually be accommodated without a problem.

The Department of Medical Physics at the Royal Hallamshire Hospital has two dual headed GE gamma cameras both of which are capable of **SPECT** and one of which also has CT functionality. -Brain perfusion studies with HMPAO and assessment of the nigrostriatal pathway with DaT Scan are regularly performed. Intra-ictal SEPCT CT is performed at Sheffield Children's Hospital.

**The Department of Radiology at the Northern General Hospital** has two Canon Medical Systems Aquilion 16cm detector scanners commissioned in 2016 and 2017. There is a 1.5T Siemens Avanto MR scanner and a further 1.5T Siemens Aera MR scanner was installed in 2017. There are 9 ultrasound rooms which are equipped with Philips iU22 & Siemens Acuson 2000 scanners & 2 modern fluoroscopy units. There are 2 Gamma Cameras in the Medical Physics department & an independent sector PET CT Unit on the site which is available for the Trust's use.

There are 2 modern vascular angiography rooms & an angiography day ward adjacent to the Radiology Department which are managed as part of the Vascular Surgery directorate. There is a suite of 5 cardiac catheter labs on the site which are managed as part of the Cardiology directorate.

**The Department of Radiology at the Weston Park Hospital** has access to 2 Philips multislice CT scanners, installed in 2016. They are used extensively for radiotherapy planning as well as diagnostic scans for the In-Patients in the hospital. There is also a 1.5T Siemens Avanto MR scanner (which was upgraded in 2017) & a Philips iU22 ultrasound scanner.

**The Jessop Wing Ultrasound department** is managed by Radiology & houses 7 ultrasound rooms. Three of which are equipped with Philips iU22 scanners & 4 Toshiba Aplio MX scanners

In 2007 an AGFA PACS was installed across the Trust.

## Training programme in Neuroradiology

- 1) The equivalent of at least 2 sessions / week in each of the following: CT, MRI and angiography under the direct supervision of a designated consultant. The trainee will be expected to provisionally report both the CT and MRI scans. Consultant staff will provide close supervision when the trainee is undertaking angiography to ensure safe practice.
- 2) An increasing number of interventional procedures are undertaken in the department and the trainee will be encouraged to assist in these procedures.
- 3) The trainee will be expected to attend as many of the following departmental meetings as possible:
  - ◆ Neurosurgery/Neuroradiology acute take meeting (Daily 8.30 am)
  - ◆ Neurosurgery/Neuroradiology weekly conference (Monday am/Wednesday pm)
  - ◆ Neuropathology/Neurosurgery/Neuroradiology Oncology MDT meeting (Wednesday lunchtime)
  - ◆ Neuroradiology - audit/medical discrepancy/reports review/research/journal club (Wednesday pm weekly)
  - ◆ Vascular/Stereotactic Radiosurgery MDT meeting (Friday am weekly)
  - ◆ Pituitary MDT (Every second Friday)
  - ◆ ENT/ head & neck oncology network MDT meeting (Monday am weekly)
  - ◆ Paediatric neurosciences (SCH) (Thursday PM weekly)
  - ◆ Ophthalmology/Neuroradiology (Thursday AM weekly)
- 4) One to two sessions /week will be allowed for study/research. This will allow the trainee to participate in departmental research and audit projects. Contact and participation with the general radiology teaching programme may also be maintained.

## Neuroradiology Staff

Dr C A J Romanowski (special interest – functional MRI, neuro-oncology, head & neck imaging)  
Dr S C Coley (special interest – diagnostic neuroradiology)  
Dr D J A Connolly (special interest – paediatric neuroradiology and spinal intervention)  
Dr R Batty (special interest – paediatric neuroradiology and spinal intervention) TPD  
Dr R Dyde (special interest – interventional neuroradiology)  
Dr S Nagaraja (special interest – interventional neuroradiology)  
Dr A Martin (special interest – neuro-oncology, dementia imaging, spinal intervention)  
Dr G Tse (special interest – interventional neuroradiology)  
Professor P D Griffiths (special interest – foetal/paediatric neuroradiology)  
Professor N Hoggard (special interest – head & neck imaging, neuro-oncology)  
Dr E Whitby (special interest – foetal/neonatal imaging)

## On-Call Commitments

The trainee will undertake one year of general on-call at the ST4 level, and dedicated neuroradiology on-call during ST5. The trainee will always be on call with a consultant neuroradiologist.

## **Teaching**

Active participation in teaching of Specialty Registrars on the Sheffield Radiology Training Programme and Neurology/Neurosurgery Specialty Registrars Training Programme will be expected as well as opportunities to teach medical students passing through their radiology attachment.

## **Research/Audit**

The trainee would be encouraged to participate in departmental research projects and to present the research at national conferences. Attendance/presentations at an international neuroradiology meeting would be encouraged and supported.

## **HEALTH AND SAFETY**

Each Trust participating in this Training Scheme recognises its duties under the Health and Safety at Work Act 1974 to ensure, as far as it is reasonably practical, the Health, Safety and Welfare at work of all its employees and, in addition, the business of the Trust shall be conducted so as to ensure that patients, their relatives, contractors, voluntary workers, visitors and members of the public having access to Trust premises and the facilities are not exposed to risk to their health and safety.

All medical and dental staff under contract will be expected to comply with all appropriate Unit Health and Safety policies.

Arrangements will be made for the successful candidate to receive copies of the Health and Safety policies of this Trust.

## **RESIDENCE**

This is a non-resident post.

Irrespective of his/her place of residence it is the responsibility of the appointee to ensure that when on-call, he/she is available to meet his/her clinical commitments.

## **Salary Scale**

The current nationally agreed pay scale for this grade is payable.

## **HEALTH CLEARANCE & MEDICAL EXAMINATION**

This appointment is subject to medical fitness and the appointee may be required to undergo a medical examination and chest X-ray.

Potential applicants should be aware of the Department of Health and GMC/GDC requirements with regard to HIV/AIDS, Tuberculosis, Hepatitis B and Hepatitis C viruses.

The successful candidate must be immune to Hepatitis 'B' and Tuberculosis. They will be required to provide, in advance of appointment, evidence of immunity or have a local blood test (as deemed appropriate by the Occupational Health Department).

## **USE OF INFORMATION TECHNOLOGY**

Under the Computer Misuse Act 1990, any individual who knowingly attempts to gain unauthorised access to any programme or data held on a computer can be prosecuted. An individual who modifies any programme or data in a computer which they are unauthorised so to do, is also liable under the

Act. If found guilty of these offences a person may be given a custodial sentence of up to six months or a fine or both. The person would also be subject to disciplinary action which may result in dismissal.

Similarly in accordance with UK copyright law, any person involved in the illegal reproduction of software or who make, acquire or use unauthorised copies of computer software will be subject to disciplinary action which may lead to dismissal.

### **STUDY LEAVE**

Study leave is granted in accordance with the recommended allowance subject to the maintenance of the service and to prior approval of the Director of Postgraduate Education at the appropriate Employing Trust.

Study leave is defined as leave taken to attend formal course of study designed to further the employees career and to enable the employee to obtain his/her professional qualifications or gain necessary expertise in order to carry out his/her job.

Wherever possible employees should attend locally organised courses.

### **ANNUAL LEAVE**

Specialty Registrars with less than 5 years NHS service are entitled to 27 days annual leave per annum. Once the Specialty Registrar has completed 5 years NHS service then they are entitled to 32 days annual leave per annum.

### **OTHER FACILITIES**

Car Parking: Car Parking is provided within the hospital grounds at all Units and a multi-storey car park is available at the Royal Hallamshire Hospital (there are only limited places available for staff).

Shops: The City has excellent shopping facilities and good suburban shopping centres are close to most hospitals.

Transport: All the major Units are on a regular bus route to the City.

### **NOTIFICATION OF TERMINATION OF EMPLOYMENT**

Specialty Registrars are required to give a minimum of three months' notice of termination of their employment.

### **POINTS OF CONTACT AND VISITING ARRANGEMENTS**

Interested candidates are encouraged to make direct arrangements with:-

Dr A Martin  
Consultant Neuroradiologist  
Royal Hallamshire Hospital  
Glossop Road, Sheffield  
S10 2SF

Telephone: (0114) 271 1615  
Email: Andrew.martin29@nhs.net