

## **ROYAL PAPWORTH HOSPITAL NHS FOUNDATION TRUST**

### **SPECIALIST REGISTRAR / CLINICAL FELLOW IN THORACIC AND NON-INVASIVE CARDIAC RADIOLOGY**

#### **JOB DESCRIPTION & TRAINING PLAN**

## **1 INTRODUCTION**

Royal Papworth Hospital currently has a post available for August/September 2023, Other dates could be considered. Posts are available for 12 months of training in thoracic and non-invasive cardiac radiology. This could be tailored to accommodate a more thoracic or cardiac emphasis.

## **2 ROYAL PAPWORTH HOSPITAL NHS FOUNDATION TRUST**

Royal Papworth Hospital is at the centre of a regional and national network of hospitals caring for patients with heart and lung disease. From a tuberculosis hospital when it opened in 1918, Royal Papworth Hospital has developed into an internationally recognised heart and lung centre and is the leading cardiothoracic specialist hospital in the United Kingdom. In April 2019 Royal Papworth moved to a bespoke, purpose-built hospital on the world-class Cambridge Biomedical Campus (CBC). The Administrative Services are based in Huntingdon. The new Heart Lung Research Institute (HLRI) is co-located with Royal Papworth Hospital and is a joint venture between RPH and the University of Cambridge to facilitate cutting edge research.

In the last 100 years, Royal Papworth has built an incredible reputation as one of the leading cardiothoracic hospitals in Europe with excellent patient experience and outcomes. This is achieved through the Trusts' values of Compassion, Excellence and Collaboration.

We are proud of our reputation as one of the best performing hospitals in the UK. We have a long and established reputation for innovation and leading-edge research. Royal Papworth Hospital was originally formed as a tuberculosis hospital in 1918 and our pioneering culture has led us to carry out many landmark procedures such as the UK's first successful heart transplant in 1979, the UK's first beating heart transplant in 2006, the UK's first Total Artificial Heart patient discharged home in 2011 and most recently Europe's first successful heart transplant using a non-beating heart. Royal Papworth is also the National centre for pulmonary endarterectomy for thromboembolic disease. Our move to the new Royal Papworth Hospital is the next chapter in our story. It is our chance to keep making history and continue pioneering new treatments that save lives across the world. Our new location on the Cambridge Biomedical Campus will also give us a much greater opportunity to work with other research organisations and hospitals to bring new treatments to patients more quickly.

We treat over 24,000 inpatient/day cases and over 92,000 outpatients each year from across the UK. Royal Papworth has nearly 1,900 staff and an annual budget of £165 million. We are one of five centres commissioned to provide Extra Corporeal Membrane Oxygenation (ECMO) for respiratory and cardiac failure in England.

The range of specialities where the Radiology department has significant input includes:

- Aortic intervention (Surgical and trans catheter)
- Structural heart disease, valvular heart disease and Adult Congenital Heart Disease
- Coronary artery revascularisation
- Cardiac Electrophysiology
- Thoracic oncology
- Airways disease including cystic fibrosis and bronchiectasis
- Cardiac and Pulmonary transplantation
- Complex critical care patients including the full range of mechanical circulatory support for advanced heart failure management

For each of these and more, our Fellows have a high level of engagement with both acute and non-acute imaging.

## **Future Developments**

Over the last 10 years, we have recorded clinical and financial successes while maintaining and enhancing our excellent relationship with patients and staff. This has been achieved whilst the hospital has steadily grown.

The strategic and workforce plans reflect the growth that will be required to achieve the NHS objectives. The hospital's track record provides a sound base on which to achieve these plans. Key to the success of our future will be continuing workforce expansion and the appointment of high calibre staff to the hospital.

The Annual Reports are on the Royal Papworth Hospital website or follow the link:

[http://www.papworthhospital.nhs.uk/docs/accounts/Papworth Hospital Annual Report Accounts.pdf](http://www.papworthhospital.nhs.uk/docs/accounts/Papworth_Hospital_Annual_Report_Accounts.pdf)

## **The New Royal Papworth Hospital**

The new Royal Papworth Hospital opened in April 2019. It is a landmark building with 300 beds and almost 100% single rooms designed to meet the needs and demands of the future. It has state of the art equipment, modern facilities and provides a first-class environment for patients and the highest quality of care. The adjacent HLRI on the Cambridge Biomedical Campus opened in 2022.

The co-location of Royal Papworth Hospital with the other organisations on the Biomedical Campus has provided great benefits to our patients giving them immediate access to a broad range of services outside of specialist cardiothoracic care and brings exciting opportunities in terms of research and education on which the treatments of tomorrow will be based.

### **3 DEPARTMENT OF DIAGNOSTIC RADIOLOGY**

#### **Medical Staff**

There are 10 Consultant Radiologists;

- Dr Bobby Agrawal
- Dr Allanah Barker
- Dr Luigia D'Errico (Radiology Clinical Lead)
- Dr Edel Kelliher
- Dr Nagmi Qureshi
- Dr Allesandro Ruggerio
- Dr Nicholas Screaton
- Dr Angela Tasker
- Dr Katharine Tweed
- Dr Jonathan Weir-McCall

A Specialist Registrar rotation operates as part of the East Anglian scheme, with two year 2/3 StRs rotating to Royal Papworth every three months for dedicated cardiothoracic radiology training as part of their core radiology training programme.

There is one formal Deanery funded Fellowship Training post of 6 or 12 months, and two Trust Fellowship Posts. Additional trainees may also join the department on OOPT attachments from their base hospital for short periods.

#### **Non Medical Staff**

There are 85 staff including radiographers, nurses, Radiology Department Assistants, and clerical staff.

## **Radiology Department facilities**

The department works predominantly with Consultant Surgeons, Cardiologists and Respiratory Physicians based at Royal Papworth Hospital and the East of England region, with some national and international referrals due to the expertise at Royal Papworth hospital. Facilities within the department include;

- Two Siemens Somatom FORCE Dual source CT scanner for cardiac work
- Siemens Aera 1.5T MRI
- Siemens Prisma 3.0T MRI
- Departmental and portable Ultrasound machines
- Nuclear medicine facilities with SPECT CT GE 870 CZT
- Three plain film/ tomographic rooms
- Dexa
- 5 angiography rooms with digital image acquisition for cardiac catheterisation, general angiography and intervention (Phillips dedicated cardiac angiography systems)

## **Other facilities:**

- Multiple workstations adapted for multimodality image post-processing using Siemens Syngo Via, Circle CVI42 and, Insignia PACS system.
- Radiology Information System (CRIS)
- Physics support from Cambridge University Hospital
- Access to help with Audit and library facilities
- Dedicated rest facilities, lockers, changing rooms, shower facilities, secure on-site staff bicycle and staff car parking

## **Departmental workload**

The department has seen a steady increase in the number and complexity of examinations performed each year, with an increase in complexity being reflected in the Korner Weighted statistics.

Principal increases over the past 4 years have been in cardiac CT and cardiac MRI. In 2021-2022, we performed Approx 3500 CMRs, 3200 Cardiac CTs and 500 TAVI CT examinations.

## 4 DUTIES OF THE POST

- Actively participate in all aspects of imaging within the department including leading CT and MRI lists. This includes administration of beta blockade, supervising stress examinations and 1<sup>st</sup> reporting all types of imaging examinations. Supervision of and support for the Radiographic team
- Participate fully in all aspects of the training and assessment programme
  - To maintain the necessary records of training/log book, and to participate in the formal annual assessment and any other assessment arranged with the consultants
  - To attend all relevant clinical and educational meetings
- Undertake at least 1 audit during the 12 month period
- Preparation of other administrative or organisational duties as required by the consultants.
- Actively lead in the training and education of the junior trainees, radiographers, medical students and other non-medical staff
- Ensure that all records are accurately maintained, and appropriate deadlines met
- Contribute to the smooth running of the department and support developments in practice within the directorate
- Observe the terms and conditions identified included with the training programme.
- Observe the Trusts policies and procedures, and clinical protocols
- Participate in the out of hours service which includes plain film reporting, reporting on-call studies, performing interventional procedures as appropriate and report as appropriate CT and MRI from dedicated worklists
- Attendance at educational meetings and participation in mandatory training including induction, training plans and appraisal, maintaining a record of competencies
- There is an expectation that Fellows will be in a position to obtain BCSI/BSCCT level II accreditation in cardiac CT and also BSCMR level II in CMR by the end of the Fellowship with a view to working towards level III

## 5 CARDIOTHORACIC SPECIALIST REGISTRAR TRAINING PROGRAMME

### **The posts**

The Royal Papworth posts have been created to provide specialist training in thoracic and non-invasive cardiac imaging for radiologists who wish to pursue a major interest in this area. It is suitable for specialist registrars (NTNs/VTNs) who have completed their general radiology training, and who intend to pursue a consultant post with a special interest in cardiac and/or thoracic radiology *or* an overseas trainee at the same level, and with the same goal. Applicants who may have recently obtained CCT but wish to specialise in cardiothoracic radiology are also welcome to apply. International applicants are also encouraged to apply.

Specialist Registrars currently enrolled in a UK training programmes other than the East of England, who wish to retain their National Training Number (NTN) whilst at Royal Papworth, should discuss this 'out-of-programme-experience' (OOPE) with their Programme Director. Those not currently in a UK training programme may be appointed as a LAS. Applicants should be aware that time spent in the latter post may not be counted toward the award of Certificate of Completion of Training (CCT). Prospective approval for up to one year can normally be sought from the Royal College of Radiologists when a numbered post has been obtained following such an appointment.

### **Research and development**

The department undertakes a broad range of research. This includes pulmonary hypertension, thoracic oncology, cardiac CT, functional cardiac MRI and image post-processing. Opportunities for collaborative clinical research include lung cancer (with a dedicated lung cancer diagnostic unit), heart and lung transplantation, cystic fibrosis, pulmonary hypertension and cardiac imaging.

There is also an established Research & Development department to provide additional assistance to initiate projects and apply for grants.

## The training programme

Opportunities will be provided to learn a variety of practical skills and gain experience in modern cardiothoracic imaging techniques. The proposed timetable has room for some flexibility to meet individual training needs. There is a required commitment to a rota for 1 in 3 daytime on call cover, on a Saturday from 9.00-17.30. There is no evening, overnight or Sunday call requirement at present.

| <b>Indicative ROTA</b> |  |   |                    |   |                    |
|------------------------|--|---|--------------------|---|--------------------|
|                        | Monday                                 | Tuesday   | Wednesday          | Thursday  | Friday             |
| AM                     | <i>CT<br/>12.30 Transp<br/>meeting</i> | <i>8.00 ILD MDT<br/>Plain film<br/>reporting or<br/>CT guided Lung<br/>biopsies</i> | <i>Cardiac MRI</i> | <i>8.00 MDT Thoracic<br/>oncology<br/><br/>12.00 Bronchiectasis<br/>MDT</i> | <i>CT</i>          |
| PM                     | <i>Dept/US</i>                         | <i>Off site</i>   | <i>CT</i>          | <i>Cardiac MRI</i>  | <i>Cardiac MRI</i> |

### **Clinical Training:**

Extensive training in thoracic and non-interventional cardiac radiology is provided. This includes non-interventional procedures: - Ultrasound, Nuclear medicine, CT, MRI, Plain film reporting together with interventional procedures in the chest.

There is access to PET/CT scanning performed at Addenbrooke's Hospital.

Attendance at and participation in other MDTs and other clinical activities will be expected in addition to the above indicative rota.

Weekly Forum teaching meetings occur at Addenbrooke's. The department attracts a steady stream of distinguished speakers from other hospitals within the UK and abroad who contribute to these meetings.

### **Management Training:**

Participation in the monthly departmental meetings which include decisions on strategy, purchasing, personnel, etc is encouraged. Attendance on a management training course may be appropriate for some SpRs, and funding may be provided, subject to the overall budget.

**Audit:**

Formal audit meetings are held regularly at Royal Papworth covering hospital wide issues.

There are regular audit meetings at Addenbrooke's which discuss completed and on-going radiology Audit projects. These projects are presented at the forum meetings on Wednesday evenings and more formally at the twice a year audit days. There is a departmental audit meeting quarterly.

**Assessments**

Performance review will be a regular part of the training programme. Formal reviews will be in accordance with the requirements of the specialty training committee.

**Informal visits or further information**

For further information please contact Dr AD Tasker, Programme organiser (email [angela.tasker1@nhs.net](mailto:angela.tasker1@nhs.net)). Informal visits are encouraged and may be arranged through the departmental secretaries (Dee Nicholls and Sharon Wong) on 01223 639451.

**6 PERSON SPECIFICATION**

| <b>TRAINING PROGRAMME REQUIREMENTS</b> | <b>ESSENTIAL CRITERIA</b>  | <b>DESIRABLE CRITERIA</b>   |
|--|--|---|
| <b>Qualifications</b>                  | <ul style="list-style-type: none"> <li>• Full GMC registration and license to practice in the UK</li> <li>• MBBS or equivalent</li> <li>• FRCR or equivalent</li> </ul>  | Higher degree/PhD/Masters   |
| <b>Experience</b>                      | <ul style="list-style-type: none"> <li>• To have completed 3-4 years of training as a specialist registrar in radiology.</li> <li>• Candidate's should be able to demonstrate clear motivation and interest in thoracic and cardiac imaging</li> <li>• Wide experience in all aspects of general radiology</li> <li>• Ability to work/report at least semi-independently</li> <li>• Computer literate with data manipulation skills</li> <li>• Evidence of participation in teaching</li> <li>• Ability to supervise and train junior staff</li> <li>• Experience of PACS/VR reporting.</li> </ul> | <ul style="list-style-type: none"> <li>• Critical appraisal of literature</li> <li>• Good pattern recognition</li> <li>• Reasonable manual dexterity with good eye-hand co-ordination.</li> <li>• Demonstration of maintaining CPD</li> <li>• Level I accreditation in cardiac CT and/or cardiac MRI</li> </ul> |
| <b>Personality</b>                     | <ul style="list-style-type: none"> <li>• An ability to work harmoniously with other members of the radiology department and members of the multidisciplinary team.</li> <li>• Ability to demonstrate good communication skills</li> <li>• Relates well to patients.</li> <li>• Ability to be self-motivated.</li> <li>• Problem solving ability</li> </ul>   |   |

|                               |  |  |
|-------------------------------|--|--|
| <b>Audit</b>                  | <ul style="list-style-type: none"> <li>• A knowledge of the fundamentals of the audit process</li> </ul>                             | <ul style="list-style-type: none"> <li>• Previous audit experience in clinical practice</li> <li>• Presentation of audit results/projects</li> </ul>   |
| <b>Research</b>               | <ul style="list-style-type: none"> <li>• Knowledge of research, discipline and protocols.</li> </ul>                                 | <ul style="list-style-type: none"> <li>• Publications in peer reviewed Journals</li> <li>• Presentations at National/International meetings</li> </ul> |
| <b>Management Ability</b>     | <ul style="list-style-type: none"> <li>• Knowledge of fundamentals of health service management</li> </ul>                           |  |
| <b>Language</b>               | <ul style="list-style-type: none"> <li>• Fluent English Speaker with well-developed oral and written communication skills</li> </ul> |  |
| <b>Patient Focused Skills</b> | <ul style="list-style-type: none"> <li>• Medical Professional level</li> </ul>   |  |
| <b>Reliability</b>            | <ul style="list-style-type: none"> <li>• Medical Professional level</li> </ul>   |  |
| <b>Flexibility</b>            | <ul style="list-style-type: none"> <li>• Medical Professional level</li> </ul>   |  |
| <b>Physical requirements</b>  | <ul style="list-style-type: none"> <li>• Occupational health clearance for the role specified</li> </ul>                             |  |
| <b>Probity</b>                | <ul style="list-style-type: none"> <li>• Honesty, integrity, appreciation of ethical dilemmas</li> </ul>                             |  |