Faculty of Radiologists
Royal College of Surgeons in Ireland

Higher Training Programme

2012
Job Descriptions
The Adelaide & Meath Hospital, Tallaght

5th Year Higher Training Post

Cross Sectional Imaging

Background: The Adelaide and Meath Hospital is one of the two main teaching hospitals of Trinity College Faculty of Medicine consisting of 600 hundred beds covering adult, paediatric and psychiatric medicine. Located in south-west Dublin, the hospital is a provider of local, regional, supra-regional and national medical and surgical specialities. It is also a National Urology Centre, a Regional Dialysis Centre and a Regional Orthopaedic Trauma Centre. The hospital opened in 1998 with a state of the art radiology department, including fully integrated PACS, which has been recently been fully upgraded. The department performed over 175,000 examinations/procedures in 2009. Diagnostic facilities include 1.5 Tesla MRI, 64-slice MDCT, helical CT, nuclear medicine, ultrasound and fluoroscopy. A full range of interventional procedures are performed under ultrasound, CT and fluoroscopic guidance. The department services a wide range of clinical specialities, including Paediatric Radiology due to the affiliation with the National Children’s Hospital.

Job Structure (Clinical): The post is for six or twelve months, under the supervision of Consultant Radiologists, who have various subspecialty interests - Dr. R. Browne, Gastrointestinal, Genito-Urinary and Intervention; Dr. O. Buckley, Cardiothoracic and Vascular; Dr. John Feeney cross sectional imaging and Nuclear Medicine; Dr Pradeep Govender, cross sectional imaging, thoracic imaging and interventional radiology (including paediatric intervention); Dr. F. Regan, Cross-sectional imaging; Dr. W. Torreggiani, Abdominal and Musculoskeletal Imaging and Intervention; Dr. B. Hogan, Nuclear Medicine, Thoracic Imaging.

This post will allow the registrar to gain wide experience in all aspects of body, neurological, cardiothoracic, vascular and musculoskeletal CT and MRI. A large proportion of caseload is oncology based. The sessional split between CT and MRI will be flexible and the needs of the successful candidate will be taken into account. Many interventional procedures are performed under CT guidance, including biopsies, drainages and thermal ablations. The registrar will have the opportunity to gain wide experience in this area. Weekly multidisciplinary meetings are held across many specialties and the registrar will have the opportunity to take a lead role in these meetings. They will also be included in the registrar on-call rota.

Job Structure (Academic): The department has a strong academic record and up to two sessions per week will be allowed for research, including audit. The department is active in publishing and presenting its work nationally and internationally. The registrar will also be encouraged to participate in post-graduate teaching and education.

For further information please contact:
Dr. Orla Buckley, Consultant Radiologist, AMNCH, Dublin,
Dr. Ronan Browne, Consultant Radiologist, AMNCH, Dublin or
Dr. William Torreggiani, Consultant Radiologist, AMNCH, Dublin
OLHSC is the largest paediatric tertiary referral hospital in the country (243 beds), offering many specialty services. It is the National Referral Centre for paediatric oncology/haematology, cardiology, cardiothoracic surgery, genetics, and hepatology, with very busy units serving neonatal and general paediatric surgery and urology together with orthopaedics, neurology, respirology, neonatology and infectious diseases amongst others. Our busy A/E department sees over 30,000 children per annum.

The Radiology department has 5 (4.7WTE) paediatric radiology consultants, and over 20 radiographers. A dedicated principal grade physicist is on site. More than 49,000 examinations are performed each year. Our department has undergone major redevelopment, with a new building housing a Siemens 1.5 T Avanto MRI scanner; a new Philips Skylight gamma camera, and our existing Siemens Somatom Emotion Duo CT scanner. We have a Siemens Axiom Iconos pulsed fluoroscopy unit, two Ultrasound rooms, a mobile ultrasound unit, three general rooms and biplane angiography.

We expect to have pacs in 2012 as part of the NIMIS strategy.

The existing department is being redeveloped to enhance the working atmosphere for patients, parents and the staff.

During their rotation with us, the specialist registrar(s) will gain experience in all aspects of paediatric radiology. They will be rostered to participate in all of the imaging modalities, under close supervision of the consultants. They will be expected to have close interaction with the paediatric medical and surgical teams. They will organise and present material at the multidisciplinary conferences. They will partake in teaching their paediatric colleagues, at both undergraduate and postgraduate level. They will participate on the on-call roster, again under close supervision of the consultants who carry out the first on call duties.

They will have at least one protected research session per week and will have full access to the extensive library and other facilities of the Children’s Research Centre. They will be expected and encouraged to submit their research findings to national and international meetings.

For further information please contact:

Dr C Brenner
Consultant Paediatric Radiologist.

Email clare.brenner@olhsc.ie
Breast Imaging

The Mater Misericordiae Hospital has a strong reputation in the diagnosis and management of breast cancer. It has been identified as one of the eight specialist centres in breast care management by the National Cancer Control Programme. Between the BreastCheck Eccles Screening Unit, National Breast Screening Programme and the newly refurbished Symptomatic Breast Unit - BreastHealth, over 450 new patients are diagnosed with breast cancer on campus each year. A well established multidisciplinary team functions within both units and have access to all of the state of the art facilities necessary to deliver a modern day ‘all inclusive’ breast care service. The specialist registrar in breast imaging is an integral part of the team and has exposure to a large volume of patients with breast cancer and benign breast disease. This position allows for intense training which leads to a strong confidence in diagnosing and managing women with breast disease.

This well established position offers 6/12 months special registrar training in breast imaging within both the screening and symptomatic service. Under the auspices of 5 Consultant Radiologists with specialist training in breast imaging, this post will insure the development of subspecialty skills in all aspects of mammography including radiographic interpretation (digital mammography), breast ultrasound, breast MRI, (and also to include the training in MR guided breast biopsy), sentinel node mapping, quality control and breast interventions – wire-guided needle localisation, stereotactic and ultrasound guided core biopsy, wide bore suction biopsy technique, and ductography. Emphasis will be placed on the multidisciplinary approach to the management of breast cancer, including active involvement in multidisciplinary case conferences and triple assessment clinics. The successful candidate/s will be expected to actively participate in the established research programme that exists in both the screening and symptomatic breast units

The position will comprise of 7 sessions of breast imaging, 2 sessions of general oncology radiology and 2 sessions of academic time. The general component includes general U/S, CT, MRI and PET/CT. This allows expansion of the oncology theme of the job allowing access to state of the art equipment and specialist consultants. An on-call commitment in line with the other radiology registrars is also an integral part of this job.

For further information please contact:

Dr Fidelma Flanagan
BreastCheck
36 Eccles Street
Dublin 7
fidelma.flanagan@cancerscreening.ie
Ph: 01-8826244

Dr Eoin Kavanagh
Department of Radiology
Mater Misericordiae University Hospital
Eccles Street
Dublin 7
Cappagh & Mater Misericordiae University Hospital

Musculoskeletal Radiology Fellowship

The Mater Misericordiae/Cappagh National Orthopaedic Hospital offers a twelve month or two 6 month Year 5 specialist registrar training positions under the auspices of the Mater Misericordiae University Hospital, based primarily in Cappagh National Orthopaedic Hospital.

The department of Diagnostic Imaging in Cappagh National Orthopaedic Hospital has been recently refurbished and has recently installed overcouch digital fluoroscopy, direct and indirect digital general rooms with tomography, ultrasound, Dexa, C-arm, and a 1.5 Tesla Philips MRI. The department is a Beta research site for Philips MRI. The department currently performs 24,000 dedicated musculoskeletal examinations a year and is served by two consultant musculoskeletal radiologists.

The department offers 2 half-day musculoskeletal interventional sessions, during which arthrograms, bone biopsies, discograms, facet and epidural nerve root blocks and vertebroplasty are performed. The department offers one half-day session of dedicated musculoskeletal ultrasound employing the HDI 3500 with a high frequency hockey stick probe, a service which includes imaging of the shoulder, the extensor tendons of the ankle and ultrasound guided interventions including tenography.

In a research capacity, the department offers office space, a desktop computer, a digital camera, a laser printer, library facilities, meeting funding and secretarial support facilitating radiology training. Through the new MR facility, Philips medical systems, and Dublin City University, the department is actively involved in the development of whole body MRI, in the evaluation of fast imaging techniques and in the evaluation of diffusion imaging techniques in the extremities. The department is the primary focal point for the national orthopaedic osteoporosis research group actively involved in a multidisciplinary evaluation of imaging and new treatment in osteoporosis, using gold standard data yielded through ash scores.

It is anticipated that the appointed specialist registrar will receive full training in the interpretation of orthopaedic conventional radiographs, digital imaging, musculoskeletal ultrasound and MRI with 9 half day clinical sessions and one half day session for research. The appointed specialist registrar will be actively involved in all research projects and will attend the multidisciplinary sports medicine conference in the Mater Misericordiae Hospital once weekly, will attend the orthopaedic tumor conference one weekly in Cappagh, will attend the departmental teaching. An on-call commitment in line with the other radiology registrars in the Mater Misericordiae Hospital is also an integral part of this job.

For enquiries
Prof Stephen Eustace
Dr Eoin Kavanagh
Cappagh National Orthopaedic Hospital
Specialist Registrar Position

Post Fellowship Training in Paediatric Radiology,
Children’s University Hospital, Temple Street, Dublin 1

Hospital and Departmental Profile

The Children’s University Hospital is a busy 140 bed paediatric hospital with over 10,000 admissions and 44,000 outpatients visits per year. It has a wide range of tertiary paediatric specialities including the national centres for inherited metabolic disorders, paediatric epilepsy surgical evaluation, paediatric craniofacial surgery, neonatal ophthalmology and head and neck tumour surgery. It has recently become the national centre for neurosurgery for children under 6 years of age with the appointment of paediatric neurosurgeons with principal attachment to the Children’s University Hospital. It serves as a specialist centre for paediatric neurology, neonatology (14 000+ births), nephrology, neonatal and paediatric surgery, orthopaedics and has the busiest paediatric emergency department in Ireland.

The radiology department does more than 45,000 examinations per year. The Radiology department has 4 paediatric radiology consultants as well as a full time principal grade physicist.

Description of Post

Children’s University Hospital trains post FFR registrars in the specialty of Paediatric Radiology for 6 month or 12 month periods. The 5th year registrar will have an opportunity to observe, be taught and to take part in all the activities of the department including

- Plain film interpretation and fluoroscopic procedures
- Ultrasound: abdominal, cranial, hip and vascular ultrasound
- Nuclear medicine, including SPECT
- CT scanning A 64 slice CT scanner was installed in March 2008.
- MRI: A 1.5 T GE MR scanner and a wide variety of studies are being done including brain, spine, orthopaedic and body imaging, angiography and spectroscopy. As a dedicated paediatric MR scanner the potential for research is great.
- Interventional procedures
- Sedation: Registrars learn about use and monitoring of paediatric sedation.

He or she will attend regular multidisciplinary conferences in the hospital including a well-attended hospital Radiology Conference every Friday, and respiratory, neonatal, neuroradiology, nephrourology and orthopaedic conferences as well as a radiology department journal club.

The 5th year registrar will have more responsibility than the 3rd year registrar, with more direct contact with the paediatricians, and more hands on experience in
procedures. He/she will be expected to prepare and present at clinical conferences and take an active part in teaching radiology to paediatric trainees. He/she will gain some experience in management and audit and will be expected to become involved in monitoring radiation protection in the department. He/she will participate on the on-call roster, under close supervision of the consultants who will be jointly rostered with them.

**Neonatal radiology**

Registrar will accompany the consultants once a week to each of these hospitals:

- **National Maternity Hospital**, Holles Street, Department of Neonatal Medicine
  At this hospital, the registrar attends a weekly radiology review conference and a neonatal grand rounds type conference as well as doing cranial, hip and other ultrasound examinations and doing supervised reporting of neonatal radiographs.

- **Rotunda Hospital**, Department of Neonatal Medicine
  At this hospital, the registrar attends a weekly journal club, a neonatal bedside grand round, review of interesting radiology, as well as doing cranial and other ultrasound examination. The registrar thus learns some neonatal medicine as well as the role of radiology in this setting.

**Radiological Research**

The 5th year registrar will have dedicated research time and access to the research facilities of the Faculty of Radiologists and of the affiliated medical schools. The radiologists in the department regularly present papers at International Paediatric Radiology meetings and publish in peer reviewed journals. The radiology department of the Children’s University Hospital has a principal grade physicist and this further enhances our research environment.

The 5th year registrar will be expected to set up and complete at least one prospective study at a level suitable for publication in a leading journal. He/she will be encouraged to attend and present papers at national and international radiology meetings.

**For further information please contact:**

Dr. Stephanie Ryan  
Consultant Radiologist  
X-ray Department  
Children’s University Hospital  
Temple Street  
Dublin 1

stephanie.ryan@cuh.ie
St. James’s Hospital

St. James’s Hospital (SJH) is the largest acute hospital in Ireland and the major healthcare institution within the Trinity College health sciences network. As of 2004, 27% of national cancer day case activity, and 11% of national cancer inpatient episodes takes place at SJH. Moreover, it has been selected as a major cancer centre for the south Dublin population including the site of the recently opened Dublin South Regional radiotherapy facility. It is a supra-regional centre for many important cancers, including oesophageal, lung, head and neck, and gynaecological cancers (>25% of patients nationally for each of these cancer groups are treated in SJH - 63% of national lung cancer resections performed in SJH in 2010). It is the national centre for burns, maxillofacial surgery, haematology and coagulation disorders, and houses the National Medicines Information centre. It has supra-regional centres for TB, cardiothoracic surgery, infectious diseases, cardiology, and gastroenterology, in addition to the cancer services above.

Radiology Department

The department currently consists of 13 consultants and 12 trainees. Over 185,000 examinations were performed in 2009. Subspecialty interest in all major areas is catered for, including interventional radiology, musculoskeletal imaging, PET/CT and body imaging. The hospital is designated as European reference site for the Cerner PACS system with digital dictation and full integration with the hospital’s electronic patient record system.

There has been a significant investment in equipment in the department in the last 12 months with a new 64 slice Toshiba CT scanner, 2 new 16 slice SPECT CTs, the refurbishment of one of the interventional radiology suites to include full CT guided interventional capabilities. Additional equipment purchased and installed includes 2 new Philips 1.5T MRI, 3 new Philips ultrasound units. Existing equipment includes a further 64 slice CT scanners with full cardiac and perfusion CT capabilities, 5 ultrasound units (including dedicated portable and breast imaging ultrasound), and 2 Siemens interventional rooms. The fully operational SJH PET centre contains a state-of-the-art GE PET scanner with 64 slice CT capability, together with a team of dedicated PET scientists. Functional imaging at the St. James’s site also includes a dedicated HRB-funded 3T MRI within the CAMI (Centre for Advanced Molecular Imaging), underlining the breadth of advanced imaging taking place in St. James’s.

Radiology Education and Training Opportunities at SJH

4 higher training positions are offered at St. James’s Hospital – typically these are offered as 1 year positions but a trainee requesting 2 separate 6 month rotations within the department will also be considered. Full participation in the on-call rota (currently 1 in 10) and at departmental conferences is expected.
Post 1: Specialist Registrar Training Post in Interventional Radiology

Personnel and Equipment
The successful candidate will work with the 3 interventional radiologists on site. Equipment includes 2 modern Siemens interventional rooms with dedicated portable ultrasound. A wide range of vascular, non-vascular and musculoskeletal procedures are performed. Cancer patients constitute a large proportion of the workload, including placement of vascular access for chemotherapy, treatment of non-resectable disease (chemo-embolisation, radiofrequency ablation), and management of complications (biliary and urinary stent placements).

Fellowship Overview
The structure of the post involves 7 sessions interventional radiology, 1 session protected for research activities (more if research output justifies this) and the remainder as non-interventional sessions, spent in Ultrasound or CT with emphasis on the interventional aspect of the modality.

Research and Education
Research is encouraged within the IR department. A minimum 10% academic time is provided. The department has recently assumed the role of principal investigator in a European study on the use of chemotherapeutic drug eluting particles in the treatment of primary and secondary liver cancer. Full participation in the on-call rota and presenting at the various multi-disciplinary conferences is expected.

Academic Status:
The registrar will be appointed a Lecturer in the Department of Radiology, Trinity College Dublin. The post will consequently include a teaching commitment at both undergraduate and postgraduate levels.

Contact Details
Candidates who wish to discuss this position or visit the department should contact: Dr. Niall Mc Eniff, Consultant Interventional Radiologist, St. James’s Hospital at nmceniff@sjh.ie, Dr. Mark Ryan, Consultant Interventional Radiologist, St. James’s Hospital at mfryan@stjames.ie, or Dr Mike Guiney, Consultant Interventional Radiologist, St. James’s Hospital at mguiney@stjames.ie.
Post 2: Specialist Registrar in Cross-sectional Imaging at St. James’s Hospital

Personnel and Equipment
The successful candidate will work with the 11 radiologists on site. Equipment includes 2 CTs, including 64 slice Siemens with full cardiac capability, 1.5T MRI and 5 ultrasound scanners. The department (through the SJH Cancer Clinical Trials Office) also provides core imaging analysis performed in the context of local and national clinical trials.

Fellowship Overview
The structure of the position involve eight sessions in MRI/CT under the direct supervision of Consultant Radiologists, with one plain film session. Close consultant supervision is provided with subspecialty expertise in body, chest and musculoskeletal imaging. A wide range of image guided procedures are performed, including dedicated slots for lung biopsy.

Research and Education
The successful candidate will be expected to participate in the wide variety of postgraduate teaching undertaken by the Radiology Department. Research and audit projects are actively encouraged within the department. A minimum 10% protected academic time is provided. Research will be primarily based in the main department, and there will be access to the 3T research MRI in the Centre for Advanced Medical Imaging on site. There is a newly appointed data manager in the department to assist with research activities.
Full participation in the on-call rota (currently 1 in 10) and presenting at the various multi-disciplinary conferences is expected.

Academic Status:
The registrar will be appointed a Lecturer in the Department of Radiology, Trinity College Dublin. The post will consequently include a teaching commitment at both undergraduate and postgraduate levels.

Contact Details
Candidates who wish to discuss the position or visit the department should contact:
Prof. Mary Keogan, Consultant Radiologist, St. James’s Hospital
mkeogan@stjames.ie, or Prof. Jim Meaney Consultant Radiologist, St. James’s Hospital, jmeaney@stjames.ie
Post 3: Cancer Imaging/PET CT Clinical and Research Fellowship at St. James’s Hospital

Personnel and Equipment
The successful candidate will work with 4 consultants with subspecialty expertise in PET CT interpretation. State-of-the-art equipment includes GE Discovery PET CT with 64 slice CT capability, 64 slice Siemens CT, and 1.5-T and research 3T MRI. The department (through the SJH Cancer Clinical Trials Office) also provides core imaging analysis performed in the context of local and national clinical trials. There is a dedicated data manager for the radiology department located in the PET CT centre.

Fellowship Overview
The SJH Cancer Imaging/PET CT fellowship provides extensive experience in body imaging including PET/CT, MRI, CT, and US in adult patients with cancer. This is a 6 month or one-year position starting July 2010. Subspecialty training with a focus on PET/CT will be provided.
- Approximately 60% dedicated PET CT rotation.
- Approximately 30% clinical CT / MRI.
- Approximately 10% research PET/CT, CT, and MRI.

Research and Education
The Oncology Imaging Fellow will participate in the multi-disciplinary research activities of PET/CT, CT and MRI. Fellows will be expected to participate in various clinical research projects. Major areas of interest include evaluation of tumour metrics and whole body assessment of tumour response. Participation in clinical conferences and on call rota is expected. Didactic teaching sessions are provided by SJH Radiology faculty, in addition to continuous on-site training, teaching and feedback.

Academic Status:
The registrar will be appointed a Lecturer in the Department of Radiology, Trinity College Dublin. The post will consequently include a teaching commitment at both undergraduate and postgraduate levels.

Contact Details
Candidates who wish to discuss the position or visit the department should contact: Dr. Ciaran Johnston at cjohnston@stjames.ie.
Post 4: Breast Imaging Clinical Fellowship at St. James’s Hospital

St James’s Hospital is one of the eight specialist centres in breast care management as designated by the National Cancer Control Program. Over 250 cancers are diagnosed annually via the Symptomatic Breast Service. Screening of high risk patients including carriers of the BRCA gene also takes place as St James’s Hospital was the first national centre to provide assessment for these patients.

Personnel and Equipment
The successful candidate will work with 4 consultants with subspecialty expertise in breast imaging. State-of-the-art equipment includes 2 dedicated mammography units and dedicated breast ultrasounds. Following the installation of the new MRI scanner, an MR guided breast biopsy service has commenced.

Fellowship Overview
The appointed Specialist Registrar will participate in 2-3 symptomatic clinics per week and 2-3 breast procedure sessions working closely in conjunction with surgical and oncology colleagues. This involves all aspects of the work up of symptomatic patients including mammography, diagnostic ultrasound, ultrasound guided aspiration, vacuum assisted stereotactic guided biopsy and ultrasound guided biopsy. There will also be the opportunity to read surveillance mammograms as part of the high-risk patient management. Perioperative management of patients including both ultrasound guided and stereotactic guided wire localisation of tumours prior to wide local excision and assessment of specimen radiographs will form part of the training.

Research and Education
The appointed trainee will also have the opportunity to present at the weekly breast MDT and attend the breast unit management meetings to gain a better appreciation of the key performance indicators (KPIs) required to meet the standards established by the NCCP. There is 10% dedicated research time (more if output demands this as per SJH).

Academic Status:
The registrar will be appointed a Lecturer in the Department of Radiology, Trinity College Dublin. The post will consequently include a teaching commitment at both undergraduate and postgraduate levels.

Contact Details
Candidates who wish to discuss the position or visit the department should contact: Dr. Sylvia O Keeffe at syokeeffe@stjames.ie or Dr. Ronan Mc Dermott at rmcdermott@stjames.ie.
St Vincent’s University Hospital

5th Year Specialist Register Training Post in Cardiovascular CT/MRI and/or Interventional Radiology

**Background**: St. Vincent’s University Hospital is a 500-bed teaching Hospital affiliated to UCD. The hospital serves the population of South-East Dublin and is a secondary and tertiary centre for many medical and surgical specialties. There are 13 consultant radiologists and 13 Registrars. The clinical referral base includes General Surgery, Hepatobiliary Surgery, (including the National Liver Transplant Unit), Urology, Gastroenterology, Hepatology, Vascular Surgery, Gynaecology, Neurology, Endocrinology, Rheumatology and Orthopaedics, Medical Oncology, Radiation Oncology, Respiratory Medicine (including the National Cystic Fibrosis Unit), Thoracic Surgery, Ophthalmology, ENT, and Emergency Department. The department has been fully digitised since July 2006.

**Training and Responsibilities**: The registrar will work in a newly equipped Radiology Department with 3 state-of-the-art Siemens interventional rooms (Siemens Axiom Artis dTA, Siemens Axiom Artis dMP, and Siemens Polystar) with integrated ultrasound, under consultant supervision, performing the full range of both vascular and non-vascular procedures. The vascular procedures include angioplasty, thrombolysis, vascular stent and stentgraft (including AAA repair) placement, chemoembolization, embolisation, TIPS and transjugular biopsy, and all forms of venous access. Non-vascular interventional procedures include abscess and pseudocyst drainage, nephrostomy and ureteric stenting, biliary drainage, stenting and stone removal, gastrostomy, gastro-jejunoscopy, vertebroplasty and radiofrequency ablation. CT, US and fluoroscopy are used to guide biopsies and visceral interventional procedures and training in all methods will be provided. Training is not limited to procedure techniques. Patient assessment pre-procedure, management of complications and post-procedure follow-up are important aspects of modern interventional radiology and are emphasised during training. It is expected that the registrar will take a leading role in co-ordinating all activity in the interventional area. The registrar will also attend clinical-radiologic conferences in all relevant sub-specialty areas and a regular teaching conference in Interventional Radiology. Development of a particular aspect of the service will be encouraged if possible, including facilitation of visits to other departments if the consultant radiologists consider these appropriate. Time will be dedicated to vascular imaging including colour Doppler US, MRA and CTA including cardiac CT and MR.

The Cardiac CT and MRI program is centered on two 64-slice Cardiac CT scanners (Siemens Sensation 64) and a cardiac MRI scanner (Siemens Avanti) with wireless 8-channel surface coil. **The cardiac CT program** covers all aspects of cardiac CT, including coronary evaluation of low-intermediate pre-test probability patients with chest pain, coronary artery bypass graft evaluation, coronary anomalies, triple-rule-out cardiac CT for the evaluation of PE/dissection/coronary artery disease, cardiac masses (metastases and primary tumors), coronary stent evaluation, congenital heart disease in adults and pre-ablation pulmonary vein imaging. **The cardiac MRI program** covers all aspects of cardiac MRI, including cardiomyopathies, viability studies, cardiac masses (metastases and primary tumors), phase velocity quantification flow studies, congenital heart disease evaluation and constrictive pericarditis with tag-lines. A central emphasis is placed on weekly consultant teaching on all the technical aspects of cardiac CT and MRI also, such as image reconstructions, MPR’s, radiation dose issues, prospective/retrospective ECG-gating, and image interpretation. A particular emphasis is placed on consultant-led research project publication for the successful registrar based on cardiac CT/MRI.

**Academic Status**: The post will include a teaching commitment at both undergraduate and postgraduate levels. The Department has a commitment to an active research program with a wide range of ongoing research projects. The successful candidate will be expected to actively contribute to the ongoing research. Up-to-date library, computer, digital image manipulation and Internet access facilities are all available within the Department.
Candidates who wish to visit the department should contact: Dr. Colin Cantwell, Consultant Radiologist, St. Vincent’s University Hospital, Elm Park, Dublin 4 [email: c.cantwell@svuh.ie]
St Vincent’s University Hospital

5th Year Specialist Register Training Post in (CT, MR, US and/or Radioisotope) Imaging

Background: St. Vincent’s University Hospital is a 500-bed teaching Hospital affiliated to UCD. The hospital serves the population of South-East Dublin and is a secondary and tertiary centre for many medical and surgical specialities. There are 12 consultant radiologists and 12 pre-fellowship trainees. The clinical referral base includes General Surgery, Hepatobiliary Surgery, (including the National Liver Transplant Unit), Urology, Gastroenterology, Hepatology, Vascular Surgery, Gynaecology, Neurology, Endocrinology, Rheumatology and Orthopaedics, Medical Oncology, Radiation Oncology, Respiratory Medicine (including the National Cystic Fibrosis Unit), Thoracic Surgery, Ophthalmology, ENT, and Accident & Emergency. The department will be fully digitised when it relocates to the new wing in January 2006.

Facilities: Our Radiology Department is housed in the new state-of-the-Art building at SVUH. It provides up-to-date exposure and training in a modern, completely digitalized PACS Radiology Dept. There are two 64 slice MDCT scanners which perform annually in excess of 15,000 examinations, including biopsies and other interventional procedures. MRI is performed on a new 1.5T Siemens AVANi system. There are nine ultrasound units providing the full spectrum of ultrasound examination including abdominal, pelvic, endocavitary (endoanal and transvaginal), musculoskeletal, vascular and small parts imaging. Power Doppler and Tissue Harmonic Imaging are available and over 1000 ultrasound-guided biopsies performed annually. In the radionuclide section there are two dual-headed and one single headed gamma camera. All types of scintigraphic examinations are undertaken, including lymphoscintigraphy and pharmacological myocardial perfusion stress testing. The department has access on a sessional basis to PET-CT at Blackrock Clinic.

Training and Responsibilities: The successful candidate will select one or more imaging modalities of interest on which they will concentrate. There are many opportunities to sub-specialize into one or more areas of interest in our Department of 13 consultants and 13 registrars. Specialist areas include the Rapid Access Lung Cancer Program and the National Adult CF center for those considering a chest imaging fellowship, the rapid access Prostate Clinic for those interested in body MR fellowships, the National Liver Transplant Program and the National Pancreatic Surgical centre for those interested in hepatobiliary/pancreatic fellowships, subspeciliast MSK with Dr. Eric Heffernan for those interested in an MSK fellowship, and so on. They will co-ordinate all aspects of provision of the imaging service in their chosen area in conjunction with the consultant radiologists, including the prioritisation, protocolding and reporting of examinations. Supervision and teaching of pre-fellowship SpRs in their chosen area will be an important part of this post. Participation in daily clinico-radiological conferences is expected. Development of a particular aspect of the service will be encouraged if possible, including facilitation of visits to other departments if the consultant radiologists consider these appropriate.
Academic Status: The post will include a teaching commitment at both undergraduate and postgraduate levels. The Department has a commitment to an active research program with a wide range of ongoing research projects. The Department has a good record of presentations at Irish and International meetings and funding is available to support presentation at these meetings. The successful candidate will be expected to actively contribute to the ongoing research. Up-to-date library, computer, digital image manipulation and Internet access facilities are available within the Department.

Candidates who wish to visit the department should contact: Dr. Colin Cantwell, Consultant Radiologist, St. Vincent’s University Hospital, Elm Park, Dublin 4 [email: c.cantwell@svuh.ie]
Beaumont Hospital offers the following positions as part of the Higher Training Scheme (5th year Registrar).

1) Lecturer in Interventional Radiology, Beaumont Hospital and The Royal College of Surgeons, In Ireland (Post I)

The above lecturer’s position in Radiology will be available in July 2012. The post is whole time and is a specialist registrar post, on the Faculty of Radiology Training Scheme in Ireland. The lecturer will spend three to four days per week in Interventional Radiology with a protected day for Research/teaching.

Job Description

Job Title: Lecturer in Radiology (with a special interest in Interventional Radiology)

Reporting To: Professor Michael J. Lee

Location: Beaumont Hospital

Objective

The objective of this post is to provide teaching and related support to the Academic Radiology Department, to contribute to the development of the Department, and to gain widespread experience in Interventional Radiology.

Specifically the duties of this post include:

1. The gamut of Interventional Radiology procedures are performed at Beaumont, including: Aortic stenting, carotid stenting, subintimal angioplasty, renal and iliac stenting, thrombolysis, venous access and caval filters, trauma embolization, chemoembolization and uterine artery embolization. A complete non-vascular interventional radiology service is also offered, which includes: Abcess drainage, biopsy RF ablation, biliary intervention, GU intervention and musculoskeletal intervention. The lecturer will be familiar with all of the above techniques on completing the year.

2. Clinical practice in interventional radiology is a vital ingredient in a complete IR program. Day case and inpatient beds are part of the IR service. Pre-procedure assessment, post procedure care and OPD follow-up will be an important part of the learning process.

3. Vascular Imaging eg CTA, MRA, Doppler will be emphasized during this year and the Lecturer will gain expertise in pre and post procedure imaging and clinical assessment.

4. Helping to organise the undergraduate radiology teaching program with the second lecturer in Radiology (Post2).

5. Maintaining the E-learning radiology website for RCSI medical students, organising cases for medical student OSCE’s and TOSCE’s.

6. Teaching both medical students and training registrars in radiology as required.

7. Participating in the research activities of the Department as required. The department has a very active research program in IR with many publications in peer-reviewed journals and presentations to international meetings. The lecturer will be expected to take up a number of research projects and see them to completion during the training period.

8. Complying with statutory legislation and Department rules and requirements in furtherance of your own and general staff welfare and safety.

9. Undergoing programmes of training and development as may be required from time to time.
10. Representing the best interests of the Department /College at all times.
11. Performing such other duties as may be required from time to time.

Post
The position commences in July 2012. The post is whole time and temporary and is a Specialist Registrar post, on the Facult of Radiology Training Scheme in Ireland.

If interested, further information can be obtained from Professor Lee at 353-1-8092831, e-mail mlee@rcsi.ie.
2) Lecturer in Radiology, (With an interest in Interventional Radiology or Diagnostic Radiology) (Post II)

The above lecturer’s position in Radiology will be available in July 2012. The post is whole time and is a specialist registrar post, on the Faculty of Radiology Training Scheme in Ireland. This post will have academic time devoted to teaching and clinical time devoted to the chosen speciality such as Interventional Radiology (as in Post 1) MRI, CT, or a body section area such as Symptomatic Breast, Chest, Abdominal or Musculoskeletal Imaging.

Job description

Job Title: Lecturer in Radiology (with a special interest in Interventional or diagnostic radiology)

Reporting To: Professor Michael J Lee

Location: Beaumont Hospital

Objective

The objective of this post is to provide teaching and related support to the Academic Radiology Department, to maintain and enhance the Undergraduate E-Learning work of the Department and to gain widespread experience in a Interventional radiology or chosen area of Radiology.

Specifically, the duties will include:

1. Organising the undergraduate radiology lecture programme.
2. Developing and maintaining an undergraduate e-learning programme in Radiology, reflecting the recent curriculum developed by the Faculty of Radiologists, RCSI. Training in e-learning techniques will be provided and the lecturer will have valuable expertise in this area at the end of the training period.
3. Organising daily workload and gaining experience in the chosen area of Radiology
4. Helping to organise the undergraduate radiology teaching program with the first lecturer in Radiology (Post 1).
5. Maintaining the E-learning radiology website for RCSI medical students, organising cases for medical student OSCE’s and TOSCE’s.
6. Teach both medical students and training registrars in radiology as required.
7. Participate in the research activity of the Department as required. Research is a high priority within the dept and the lecturer will be expected to take up suggested research projects and complete them during the training period. Submission and presentation of papers at international meetings is also expected.
8. Complying with statutory legislation and Department rules and requirements in furtherance of your own and general staff welfare and safety.
9. Undergoing programmes of training and development as may be required from time to time.
10. Representing the best interests of the Department/College at all times.
11. Performing such other duties as may be required from time to time.

Post

This position commences in July 2012. The post is whole time and temporary and is a Specialist Registrar post, on the Faculty of Radiology Training Scheme in Ireland.

If interested, further information can be obtained from Professor Lee at 353-1-8092831, e-mail mlee@rcsi.ie
3) **Higher Training Neuroradiology Post at Beaumont Hospital**

Beaumont Hospital, Radiology Department offers a one year rotation Higher Training Scheme Post in Neuroradiology. Beaumont Hospital is the National Neurosurgical service and also has a large Neurology and E.N.T. service.

We have state of the art MR, CT and Angiographic equipment. The trainee will gain extensive experience in CT and MR reporting as well as being actively involved in protocling procedures, discussions with clinicians and presentation at clinical conferences and teachings.

There is a very busy Diagnostic and Therapeutic Interventional Neuroradiology service, performing approximately 800 diagnostic angiograms and 400 interventional procedures per year. The trainee will be expected to become involved in this programme as a First Year Fellow in Interventional Neuroradiology, gaining experience in Diagnostic Angiography and endovascular treatment of aneurysms, arteriovenous malformations, tumours and carotid stenosis. There will be a significant clinical component to this with patient review prior to and post intervention.

The Registrar will be given one half day per week for research purposes and will be expected to get involved in research projects within the Department. There will also be a commitment to teaching of junior Radiology Registrars as well as Neurologists and Neurosurgeons.

The Trainee will work under the direct supervision of the Consultant Neuroradiologists.

**For more information please contact:**

**Dr. John Thornton,**  
Department of Neuroradiology,  
Beaumont Hospital,  
Dublin 9
4) **Chest Imaging based at Beaumont Hospital**

**Equipment:**
- 2 State-of-the-art digital chest radiography units
- CR throughout the remainder of the department’s general rooms and mobile units.
- 3 Multislice CT machines

State-of-the-art ultrasound, MRI machines and gamma camera. Second MRI scanner recently installed.

**Workload**

**General Radiography:**
- Standard chest radiographic work for a Dublin teaching hospital.
- Range of ITU films (neuro-surgical, transplant, cardiac, medical and surgical).
- Extensive range of oncologic radiography.

**Chest CT:**
- Approximately 3,500 Chest CT studies per year.
- Full range of CT studies for intestinal lung disease, lung cancer and other oncologic indications, CT angiography for pulmonary emboli.
- Beaumont hospital is now a designated National Rapid Access Lung Cancer site and, as such, provides rapid access CT slots each week for probable cancers.

**Intervention:**
We carry out up to 100 transthoracic lung biopsies per year and full range of other non-vascular and vascular intra-thoracic interventional procedures.

**Non-clinical Opportunities**

**Conferences:**
We conduct a weekly 1.5 hour multi-disciplinary lung cancer conference attended by radiology, pathology, respiratory medicine, thoracic surgery and oncology/radiotherapy.

We conduct a second, 1 hour, non-cancer, respiratory clinical-radiology conference.

There are at least further 6 Clinical-Rad-Pat conferences per week covering many other specialities, most of which will have some thoracic imaging interest.

**Teaching:**
Current chest teaching commitment includes teaching the first and second year medical student’s chest anatomy, final year medical students chest radiology, radiology registrars at all levels, and chest imaging to the SpR’s in respiratory medicine.
Research:
Our department has a well-established record in coordinating and publishing research and has an excellent research support infrastructure. The case material in thoracic imaging is superb and provides great research potential for any interested higher training registrar.

We have five active respiratory physicians in the hospital with very large clinical practices and extensive research interests and infrastructures. A busy oncology practice deals with more than 200 new lung cancers per year plus all the thoracic manifestations of extra-thoracic cancers and all relevant imaging and intervention is obtained in our department.
Areas of specific clinical interest is Alpha1 antitrypsin deficiency, CF, Asthma/sleep disorders, bronchiectasis and lung cancer.

Enquiries to Dr. Mark Logan, Consultant Radiologist, Beaumont Hospital, Dublin 9
Post Fellowship Specialist Registrar
Post in Breast Imaging, St. Vincent’s University Hospital

With the introduction of the cancer control programme and the establishment of 8 specialist centres for the diagnosis and treatment of breast cancer, there is potential for training in breast imaging interpretation and intervention in highly specialised units. There are two 6 month posts or 1 one year post for specialist training in this field. The posts are linked between St. Vincent’s University Hospital and BreastCheck.

Background Information:
St. Vincent's University Hospital has a large symptomatic breast clinic. Women are referred from the surrounding areas of South-East Dublin but the clinic also acts as a secondary and tertiary referral centre. There are approximately 250 new breast cancers diagnosed annually through the symptomatic clinic in St. Vincent’s Hospital. There are also a large number of outpatient’s attendances for benign conditions. There is large multi-disciplinary team of surgeons, radiologists, pathologists, radiographers, breast care nurses and many other staff who have a special interest in the diagnosis and treatment of breast cancer. There is also the National Breast Screening Unit on the campus. The unit has an eligible population of 70,000 on a two yearly screening cycle. Approximately 200 breast cancers annually would be expected in the prevalent round of the breast screening programme.

Academic Status:
The Registrar will be appointed to work within the service but also to engage in the very active research programme associated with the symptomatic breast cancer service. To this end a minimum of 10% academic time would be allocated to this post weekly. There will be opportunities too form research into both symptomatic and screen detected breast cancer.

Clinical Training:
There will be extensive opportunities in mammographic interpretation. There will be an opportunity to gain experience in symptomatic mammography but also to gain considerable experience in screen reading in the screening service. Both the screening and symptomatic units in St. Vincent's Hospital have very high non-operative diagnosis of malignancy and there will be opportunities to gain experience in an aspects of image guided biopsy. Ultra-sound and stereotactic guided core biopsies are routinely performed. There are digital stereotactic units and state of the art ultrasound units both in screening and symptomatic service. The training in non-operative diagnosis would take place in St. Vincent's University Hospital. There is a very committed multi-disciplinary team and the registrar: would be expected to partake in the radiological pathological correlation of all image; guided biopsies performed in the unit. The successful candidate would be expected to maintain general radiology skills in this post fellowship training period and would be expected to become actively involved in CT, ultra-sound and MRI staging investigations of women with breast cancer. There is also an active Radio Nuclide Department and Sentinel Node is routinely performed.
The main commitment will be to acquire strength in breast image interpretation and intervention.

Candidates who wish to visit the department should contact: Dr. Ann O’Doherty

Dr Ann O’Doherty
Consultant Radiologist
BreastCheck/St Vincent’s Hospital
Merrion Road
Dublin 4

ann.odoherty@cancerscreening.ie

01-2235800
Waterford Regional Teaching Hospital invites applications for two 5th year posts on the National Training Scheme in Diagnostic Radiology as run by the Faculty of Radiology RCSI. The posts are whole time and have specialist registrar designation on the Faculty of Radiology Training Scheme in Ireland.

Background

Waterford Regional Teaching Hospital is a constituent University Teaching Hospital of the Royal College of Surgeons in Ireland of 500-bed capacity. The hospital serves the population of the South-East and is a secondary and tertiary centre for many medical and surgical specialties, with regional units in Orthopaedics and Trauma, Emergency Medicine, ENT, Ophthalmology, Oncology, Palliative Care, Interventional Radiology, Nephrology, Breast Surgery, Medical Physics, Haematology, Dermatology, Paediatrics, Laboratory Medicine, Vascular Surgery, Rheumatology, Anaesthesia, intensive care, Psychiatry and Obstetrics and Gynaecology. Other affiliated units include:

- St. Lukes Hospital Kilkenny 317 beds
- Wexford General Hospital 206 beds
- South Tipperary General Hospital 239 beds

Waterford Regional Teaching Hospital admits 17,000 patients per annum from an emergency department throughput of 65,000. 123,000 outpatients are seen annually with 17,978 day-cases performed.

The Department of Radiology performs over 130,000 examinations per year including in excess of 11,000 multislice CT examinations, 5,000 MRI examinations and 14,000 ultrasound examinations. At the time of post commencement, the Radiology department will have 8 consultants, and over 20 radiographers. A dedicated principal grade physicist is on site.

Facilities: There is one 16 slice MDCT scanner (Siemens Somotom Sensation 16 slice) which performs annually in excess of 11,000 examinations, including biopsies, drainages, radiofrequency ablation and osteoplasty. Funding is approved and building works commenced for a second MDCT, 64 slice to service the growing oncology demand and the new Accident and Emergency department currently under construction. MRI is performed on a new 1.5T system (MRI Siemens Symphony 1.5T MaestroClass). The emphasis in MR is on oncological, neurological, musculoskeletal and body imaging.

At the time of post commencement, all 5 state of the art ultrasound units will be less than two years old. The full spectrum of ultrasound is provided including abdominal, pelvic, endocavitary (endoanal and transvaginal), musculoskeletal, vascular and small parts imaging.

In the radionuclide section there is one dual-headed, SPECT enabled, gamma camera (Philips Skylight).
The Interventional suite has a Siemens Angiostar with C arm with a dedicated GE logiq 5 US machine.

Mammography is fully digitised. The remainder of the department is equipped with digital chest radiography units, CR throughout the remainder of the department’s general rooms and mobile units.

NIMIS is being rolled out on-site on the 25th October 2011 which will result in a state of the art PACS and new RIS.

**Training, Education, Teaching and Research:**

The configuration of the 5th year will be based on the requirements of the Specialist Registrar and cross-over from the posts outlined below will likely be possible. The overarching ethos of the rotations will be educational; the registrar will receive at least three-four case-based tutorials per week in addition to the direct daily workstation based teaching. One of the consultants has a Higher Diploma in Medical Education and is currently engaged in a Masters programme in same. The consultants are heavily involved in the organisation of International Meetings such as the RSNA, ARRS and ECR and are regular invited speakers. The department is active in publishing and presenting its work nationally and internationally and the registrar will be expected to participate fully. All posts include a teaching commitment at both undergraduate and postgraduate levels. Up-to-date library, computer, digital image manipulation and Internet access facilities are available within the Department. As a Faculty recognized SpR, the Registrar will have access to RadPrimer online.

**Posts available:**

**Post 1: Interventional radiology.**

The Registrar will gain experience of the entire spectrum of vascular and non-vascular interventional radiology, including peripheral arterial disease, abdominal aortic stent grafting, renal artery stenting, percutaneous biliary interventions (including drainage and stenting), uterine artery embolisation (UAE) and inferior vena cava filter placement. Venous interventions performed include pharmaco-mechanical thrombectomy, thrombolysis, venoplasty, stenting, and placement of PICC lines, chest ports and tunnelled catheters. Targeted Musculoskeletal Interventions are performed including Vertebroplasty and Extraspinal Osteoplasty and Radiofrequency ablations.

A large volume of Urological Intervention is performed, including nephrostomies, ureteric stenting (primary placement and retrograde exchange), cyst and abscess drainage, and renal biopsies. The clinical components of Interventional practice will be emphasized via ward rounds and seeing Outpatients.

Vascular Imaging e.g. CTA, MRA and Doppler will be emphasized during this year and the Registrar will gain expertise in pre and post procedure imaging and clinical assessment.
It is envisaged that the trainee will perform six sessions of Interventional Radiology training on a weekly basis. The post has a significant academic component in addition, and the trainee will also be included in the NCHD (Non Consultant Hospital Doctor) on call roster. In addition to the Interventional Radiology training, the trainee will also have one session per week of general radiologic duties in the Department which may comprise cross sectional or other general imaging.

The successful candidate will work with the two dedicated interventional radiologists and the other General Radiologists performing interventions in their fields of interest.

### Post 2: Specialist Registrar in Cross-sectional Imaging

Modalities include MDCT, MRI and US. Training strengths include Oncological, General Thoracic and Abdominal (including virtual colonoscopy), Gynaecology and MSK imaging.

This post will allow the registrar to gain wide experience in all aspects of body, neurological, vascular and musculoskeletal CT and MRI. As a centre of excellence for cancer therapy, a large proportion of the caseload is oncology based. The sessional split between CT and MRI will be flexible and the needs of the successful candidate will be taken into account. A significant volume of dedicated musculoskeletal ultrasound is performed, a service which includes imaging of the shoulder, the extensor tendons of the ankle and ultrasound guided interventions, and the Registrar will be encouraged to get involved if this is an area of interest.

Many interventional procedures are performed under US and CT guidance, including biopsies, drainages and thermal ablations. The registrar will have the opportunity to gain wide experience in this area. Weekly multidisciplinary meetings are held across many specialties and the registrar will have the opportunity to take a lead role in these meetings. They will also be included in the registrar on-call rota.

### Post 3: Breast Imaging

Waterford Regional Teaching Hospital is the regional unit for symptomatic breast disease. Triple assessment breast clinics operate and under the supervision of two consultant Radiologists with specialist training in breast imaging, experience in this post will ensure the development of subspecialty skills in all aspects of mammography including radiographic interpretation (digital mammography), breast ultrasound, sentinel node mapping, quality control and breast interventions – wire-guided needle localisation, stereotactic and ultrasound guided core biopsy, wide bore suction biopsy technique, and ductography. Scintigraphic sentinel node mapping is also performed.

The specialist registrar in breast imaging is an integral part of the team and has exposure to a large volume of patients with breast cancer and benign breast disease. This position allows for intense training which leads to a strong confidence in diagnosing and managing women with breast disease.
Emphasis will be placed on the multidisciplinary approach to the management of breast cancer, including active involvement in multidisciplinary case conferences and triple assessment clinics.

For further information or to arrange visits to the department please contact Dr. Anthony Ryan: Tel: 051 848000, anthony.ryan1@hse.ie
University College Cork (with clinical duties at Cork University and Mercy University Hospitals):

This post is fully funded by University College Cork and is primarily an academic radiology position.

The Department is committed to an active research program with a wide range of ongoing research projects. This research programme is focused on radiation dose optimization and abdominal and chest imaging research. The Department has a good record of presentations at Irish and International meetings and has had an excellent track record of publications in international peer-reviewed literature (see www.pubmed.org).

The successful candidate will lead this programme under the supervision of the Professor of Radiology and other hospital consultants at CUH and MUH. A considerable portion of time will be protected for implementation of research projects and preparation of presentations and manuscripts.

A major focus of the position will be teaching of undergraduate radiology, anatomy and pathology. This teaching will be take place at hospital campuses affiliated to UCC, in the anatomy dissection room, and at the main University Campus. The successful candidate will also be heavily involved in student assessment in all five years of the undergraduate programme and also in the Graduate Entry Programme.

The successful candidate will be involved in a range of clinical duties at CUH and MUH including chest and abdominal radiology and intervention and preparation and participation in MDT’s. The lecturer will also attend daily clinico-radiological conferences of their choosing and will attend and supervise regular teaching conferences in their chosen area.

The successful candidate will be encouraged to prepare a thesis based on completed research for consideration towards M.D. degree from UCC.

For further information please contact Professor Michael Maher at 086 1731929.