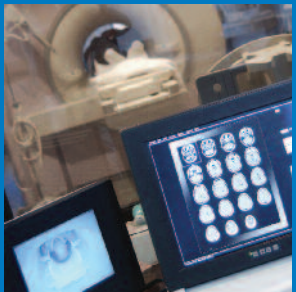


Clinical Scientists Opportunities 2010



Join the team and make a difference

Careers

A woman with blonde hair is looking down at a CT scan image. The image shows a cross-section of a human torso with various organs and structures visible in shades of gray.

Clinical Scientists Opportunities 2010

Please note: for all vacancies published in this handbook, detailed training scheme information is available on the Clinical Scientists website:

www.nhscinicalscientists.info

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Introduction

If you are passionate about science or technology, and like helping others, a career in clinical science in the NHS offers a wide range of opportunities.

Clinical Scientists fill a very special niche in the NHS. There are opportunities for laboratory work, basic and applied research, management, and teaching. Clinical Scientists working in the NHS enjoy the added advantage of contributing directly to patient treatment and care. This unique satisfaction makes that work especially relevant and rewarding.

Clinical Scientists can be found working in the three main areas of healthcare science:

- Life Sciences
- Physiological Sciences
- Physical Sciences and Clinical Engineering

The basic vocational training of a Clinical Scientist prepares him/her for a variety of roles, for example, advising clinicians on appropriate diagnostic tests and on the scientific approaches to treatment likely to be most fruitful; devising scientific or engineering solutions to clinicians' problems; and developing solutions for a wide range of different types of patient, thereby pushing back the frontiers of clinical science.

Career Structure for Clinical Scientists

There are three grades within the NHS career structure. New entrants to the profession may start in Band 6, as a Trainee (this may vary depending on location). Trainees are usually based in a single hospital department, but often undertake periods of secondment to obtain wider experience.

Trainee Clinical Scientists – Band 6

Trainee Clinical Scientists are appointed onto a fixed-term contract during the training period. All formal training programmes lead, via an examination coupled with assessments by the in-service training supervisor, to a formal qualification. Those in some of the pathology specialities may lead to a Certificate from The British Academy of Audiology, the Clinical Molecular Genetics Society, the Association for Clinical Biochemistry, the Association for Clinical Cytogenetics, the Association of Clinical Microbiology; or the Diploma of the Institute of Physics and Engineering in Medicine (DiplPEM), (Medical Physicists, Clinical Engineers) as appropriate. At the completion of the training and subsequent experience totalling 4 years, trainees will apply to the Association of Clinical Scientists for a Certificate of Attainment as explained below. This constitutes the qualification which assists the trainee to secure a post in the speciality at Band 7. Following registration many will work on a Fellowship of the Royal College of Pathologists (FRCPath) qualification.

Statutory Registration

When Clinical Scientists can demonstrate competence to practice, by successfully completing the Clinical Scientists Training Programme and gaining higher training and a wider experience of scientific duties in a clinical environment, they can apply to become state-registered. From 1st April 2002, the Health Professions Council (HPC)

has been responsible for the maintenance of the Statutory Register of Clinical Scientists. Registration is essential for career development and ability to work in an unsupervised situation. In order to comply with the criteria for entry to the Register, applicants need to have been in a Clinical Scientist training post for a minimum of four years or to have spent at least six years in a post carrying out work relevant to a Clinical Scientist. Upon completion of this training period, trainees submit a portfolio and are assessed at interview by the Association of Clinical Scientists (ACS). Achievement of the certificate allows registration with the HPC.

Further Qualifications

It should be emphasised that a Clinical Scientist's training does not end when they leave the Clinical Scientists Training Scheme. As with doctors, training is expected to continue in a less strictly supervised form and at least one further vocational qualification is usually obtained. These qualifications include a membership of an appropriate professional body (e.g. FRCPath or MIPEM) or an equivalent Chartered award (e.g. CEng, CChem, CPhys). During this period a Ph.D. may also be achieved.

Clinical Scientists – Band 7

Trainees will be expected to apply for Band 7 posts in the course of their final training year, and to be offered appointments that are conditional upon their success in gaining the exit qualification from the training grade. Although Band 7 constitutes the first substantive grade, progression to the top of the grade has to be merited. An ambitious Clinical Scientist should expect to be mobile during training and indeed during his/her career. The most rapid career progression may be achieved by applying for a higher-scaled vacant post elsewhere.

Band 8 and 9

For many disciplines Band 8 is the 'career grade' with progress from 8A to 8D by promotion and career progression. Bands 8C, 8D and 9 are the highest level for Clinical Scientists and at career stage 9 (bands 8D, 9 and some at 8C) carries Medical Consultant equivalent status (Consultant Clinical Scientist). Posts graded thus usually involve the clinical leadership and management of a department, or a major departmental section, or at the very highest level clinical directorship of a service. This status is usually earned by a consistent and continuing output of distinguished scientific work judged by peers to advance the clinical science as a whole, either in a theoretical sense or in the practice of that science. When visiting departments, potential applicants should clarify how the Healthcare Science career structure operates within that discipline.

Salary and Conditions of Service

The start of the current pay scale for a Band 6 Clinical Scientist (which most trainees would be appointed to) is £24,831 per annum (for trainees in London this is augmented by a High Cost Area Allowance (previously known as the London Weighting Allowance of between 5% and 20% of salary depending on where you work in London). Students normally start at or near the bottom and progress up the scale by annual increment. It is for employing authorities to determine at which scale point trainees will commence, based upon candidates' previous experience and qualifications. Some programmes offer a generous bursary and others a combination of salary and bursary.

In Band 6, the trainee will be entitled to 27 days of paid annual leave, in addition to the statutory public holidays.

Examination fees as well as travel and subsistence costs, for both secondments and attendance at courses, will be paid by the employing authority in many instances.

The start of the current pay scale for a Band 7 Clinical Scientist is £29,789 and for a Band 8, this could be between £37,996 and £63,833 depending on whether you enter the band at range A, B, C, or D. Band 9 starts at £75,383.

Please note all salaries are subject to the 2010/11 Pay Awards

For further information about pay scales and agenda for change visit

www.nhsemployers.org/pay-conditions/agenda-for-change.cfm

Accredited Training Schemes

Most trainees will be based in a department accredited to provide training. All vacancies in this handbook are in accredited centres unless specified. This accreditation or 'seal of approval' is given by the relevant professional body and to become accredited, departments and training programmes have to meet nationally-set standards. The accreditation process ensures a consistently high standard of training for Clinical Scientists throughout the NHS.

Strategic Health Authority Funded Trainees

All vacancies in this handbook are Regionally Funded. Most trainee Clinical Scientists are employed as 'SHA Funded Trainees' although some are funded through other bodies such as the Health Protection Agency. All are employees of the NHS Trusts to which they are attached but they may be seconded to suitable training bases at local hospitals. The secondments will vary in number and duration, depending on the scientific discipline, but the aim of the secondment is to provide quality training, a wide variety of experience as well as insight into specialised services. The programme of training and secondment(s) will be individually arranged for each trainee, but following national guidelines where applicable. In addition to the Regionally Funded schemes, each hospital with a relevant scientific service may occasionally employ trainees using its own funds (Locally Funded Trainees). Training places of this nature are included in this handbook but applicants are advised to check with the department in question, whether it is accredited for training and that opportunity will be given to acquire the relevant exit qualification, as failure to do so may prejudice later career prospects.

Informal Laboratory/Clinical Visits

You are strongly encouraged to visit at least one laboratory/clinic prior to interview stage if possible. For the majority of vacancies listed in this handbook potential applicants are encouraged to arrange a visit with the local contacts (or alternative contact as specified) by telephone or email. The vacancy details on the following pages highlight the laboratories/clinics that welcome visits.

Modernising Scientific Careers (MSC)

As part of the Modernising Scientific Careers programme there will be a new career framework and accompanying new training programmes for healthcare scientists in the coming few years and currently only affects Genetics training. The details of the training programmes for trainee Clinical Scientists starting in 2010 may therefore be subject to changes, the details of which will be published on the website, as they become available.

Further Information

For further information regarding these opportunities and careers, please see below:

Recruitment Centre

Please contact the Recruitment Centre for information regarding these opportunities and details on how to apply. The Recruitment Centre may not always be able to answer more specific questions that you may have, but will be able to guide you to further information as appropriate.

Local Contacts

Each vacancy in this handbook details at least one local contact who is available to answer questions regarding their specific Training Centre and Scheme.

Professional Bodies

The website addresses of Professional Bodies can be found on our website. They will provide further information about the disciplines detailed in this handbook, accreditation and training and development.

Recruitment Procedures

The following pages give details of vacancies available within the NHS in 2010. The vacancies are grouped in the three science divisions in order to ease selection. Each vacancy has an alpha-numerical code. This code should be entered in the 'Application Choices' section on the front of the application form.

Please Note: Details of the 2010 vacancies were correct at time of going to press however, as all vacancies are subject to available funding, one or more of the vacancies may be withdrawn without notice. The website will contain up to date information on available vacancies and is updated as and when new information is received. If the Recruitment Centre is made aware of any additional vacancies after the handbook is published they will be placed on the website.

Paper Application Forms

To request a paper application form please contact the Recruitment Centre as detailed below. They will be able to email or post you a copy of the form.

Write clearly or type to avoid confusion and use BLACK ink to improve the quality of photocopying

1. Choose up to a maximum of four** suitable application choices.
2. Complete the science discipline in each case (e.g. Audiology).
3. Each vacancy has an alpha-numerical code. Please enter this code in the boxes on the application form in alpha-numerical order. Please note - you should enter one code only in each box, (e.g. W1).
4. Complete your personal details and all the relevant sections of the form.

5. Check that the form is completed fully, legibly and correctly.
6. Return your completed application form to the Clinical Scientists Recruitment Centre **no later than Monday, 8 February 2010:**

NorthgateArinso

Clinical Scientists Recruitment Centre
239 Thorpe Road
Thorpe Park
Peterborough
PE3 6JY
Tel: 0871 4333070
clinicalscientists@northgatearinso.com

Receipt of the applications will be individually acknowledged.

Any CVs, certificates and references attached to your form will not be forwarded to the Regional Tutors. All necessary information should be included on your application form. Please note you can enter up to two A4 sheets on the 'Additional Information' part of the application form.

*** Should we receive more than four application choices from you we will only accept the first four choices received.*

Timetable

1. Closing date for the receipt of applications is **Monday 8 February 2010.**
2. Copies of your application will be forwarded to the Local Contacts at the hospitals of your choice.
3. Successful candidates will be contacted to attend interview at the hospital for second stage selection. If an interview date has been confirmed it is included in the individual vacancy details on the following pages.
4. Candidates who have not been notified by June 2010 must assume that they have not been successful. We are unable to contact each applicant individually.

5. Interviews will be completed by the end of May (unless otherwise notified).
6. You must accept or reject any offers of trainee employment by May 2010, or earlier, if requested by the employing authority.
7. The Clinical Scientists Recruitment Office will operate a follow-up system to match any unfilled vacancies with unplaced applicants. The list of unfilled vacancies will be available from the Recruitment Office and on the Clinical Scientist website during July 2010. Interested applicants should apply at that time indicating for which vacancies they wish to be considered.
8. The second round of interviews should be completed by the end of August 2010.



Life Sciences

Healthcare Scientists who work in life sciences may work in hospital laboratories or out in the community. They may work for other national agencies concerned with blood, health protection and organ transplant. Life sciences cover three broad areas. Pathology laboratories (investigating the cause of illness and how it progresses); genetics (understanding the genetic components of illnesses); embryology (key to creating life or providing other solutions to infertility).

Clinical Biochemistry

Healthcare Scientists help diagnose and manage disease through the analysis of blood and other body fluids. They advise hospital doctors and GPs on which tests to ask for, how to use the results of the tests and the options for treatment of the patient.

Vacancy Code	No. of Posts	Location of Posts	Local Contacts	Higher Degree as part of scheme - Qualification	Accommodation Available	Interview Dates	Informal Laboratory Visits Welcome
E3	1	Norfolk & Norwich University Hospital	Mrs Pauline Ridgwell Tel: 01582 497969 Email: Pauline.ridgwell@ldh.nhs.uk	Yes – MSc	Subject to availability	April 2010	Yes
EM2	2	Nottingham & Derby Hospitals	Dr Nigel Lawson Tel: 01332 789 387 Email: Nigel.lawson@derbyhospitals.nhs.uk	Yes – MSc	Short Periods	April 2010	Yes
EM12	2	Leicester	Dr W Madira , Email: webster.madira@uhl-tr.nhs.uk Mr D P Garrick , Email: paul.garrick@uhl-tr.nhs.uk Dr Virginia Lee , Email: virginia.lee@uhl-tr.nhs.uk	Yes – MSc	Subject to availability	April 2010	Yes
L1	8	St George's Hospital The Royal Free Hospital King's College Hospital Charing Cross Hospital The Royal London Hospitals University College London Hospitals St Thomas' Hospital St Mary's Hospital	Dr Frances Boa , Email: frances.boa@stgeorges.nhs.uk (St George's Hospital) Mr Stephen Whiting , Email: Stephen.whiting@royalfree.nhs.uk (The Royal Free Hospital) Dr Roy Sherwood , Email: Roy.Sherwood@kch.nhs.uk (King's College Hospital) Dr Mandy Donaldson , Email: mandy.donaldson@imperial.nhs.uk (Charing Cross Hospital, St Mary's Hospital) Dr Les Perry , Email: les.perry@bartsandthelondon.nhs.uk (The Royal London Hospitals) Dr Anne Dawnay , Email: anne.dawnay@uclh.nhs.uk (University College London Hospitals) Ms Zehra Arkir , Email: zehra.arkir@gstt.nhs.uk (St Thomas' Hospital)	Yes – MSc	No	April 2010	Yes

Vacancy Code	No. of Posts	Location of Posts	Local Contacts	Higher Degree as part of scheme - Qualification	Accommodation Available	Interview Dates	Informal Laboratory Visits Welcome
NW9	4	Manchester, Liverpool and others TBC	Mrs Katharine Hayden Tel: 0161 701 1106, Email: katharine.hayden@cmft.nhs.uk	Yes – MSc	No	April 2010	Yes
SC3	5	Southampton Oxford Brighton Frimley, Surrey Kent	Dr Valerie Walker (Southampton) Tel: 023 8079 6419, Email: valerie.walker@suht.swest.nhs.uk Dr Reza Morovat (Oxford) Tel: 01865 220476, Email: reza.morovat@orh.nhs.uk Dr Bernard Rocks (Brighton) Tel: 01273 696955 x 4147, Email: bernard.rocks@bsuh.nhs.uk Ms Paulette Cusick (Surrey) Tel: 01276 604395, Email: paulette.cusick@fph-tr.nhs.uk Mr Edward Kearney (Kent) Tel: 01843 234424, Email: edward.kearney@EKHT.nhs.uk Mr Stephen P. Halloran (Lead Regional Tutor) Tel: 01483 688553, Email: s.halloran@nhs.net	Yes – MSc	Yes	April 2010	Yes
SW1	1	Bristol	Ms Gayle Harrison Tel: 0117 3235 559, Email: gayle.harrison@nbt.nhs.uk	Yes – MSc	Yes	April 2010	Yes
W4	3	Cardiff Merthyr Tydfil Newport	Dr Carol Evans Tel: 02920 748367, Email: carol.evans@cardiffandvale.wales.nhs.uk Dr John Geen Tel: 01685 728265, Email: john.geen@wales.nhs.uk Dr Catherine Bailey Tel: 01633 234772, Email: catherine.bailey2@wales.nhs.uk	Yes – MSc	Yes	April 2010	Yes
WM6	4	City Hospital, Birmingham Russells Hall, Dudley Birmingham Heartlands Hospital	Mr C Webster (Birmingham) Tel: 01214 242243, Email: craig.webster@heartofengland.nhs.uk Dr DT Vallance (Dudley) Tel: 01384 244081, Email: david.vallance@dgoh.nhs.uk Dr J Berg (Birmingham) Tel: 0121 507 5353, Email: jonathan.berg@swbh.nhs.uk	Yes – MSc	No	2010	Yes

Vacancy Code	No. of Posts	Location of Posts	Local Contacts	Higher Degree as part of scheme - Qualification	Accommodation Available	Interview Dates	Informal Laboratory Visits Welcome
YH7	1	Sheffield	Mr Mark Redpath Tel: 0114 271 4930, Email: mark.redpath@sth.nhs.uk	Yes – MSc	No	2010	Yes
YH8	1	Leeds	Mr SR Goodall Tel: 0113 206 4293, Email: steve.goodall@leedsth.nhs.uk	Yes – MSc	No	2010	Yes, please contact Liz Kelshaw on 0113 206 4293 or elizabeth.kelshaw@leedsth.nhs.uk

A Day in the Life of a Clinical Biochemist

You will deal with roles of clinical liaison, scientific development, teaching and management. During the scheme you will undertake intensive clinical and analytical training to ensure you understand how to provide all aspects of the high quality laboratory service necessary to meet the demanding requirements for diagnosis, monitoring and treatment of patients.

A Typical Day

Hazel Hutton: Senior Clinical Scientist

“Today I am the Duty Biochemist and I am reviewing and validating results from patients. For each abnormal result we decide whether the result is analytically valid and whether it fits with the clinical picture of the patient. We may ring the patient’s clinical team or GP to discuss the results in the context of the medical presentation and history. We may offer advice on further tests or recommend hospital and national protocols to help manage the patient effectively.

Education is a vital part of my role. I give tutorials to junior members of staff and discuss laboratory services with doctors and nurses.

Today I am meeting with GPs to discuss how best to use thyroid function tests in various clinical scenarios.

This work is part of an audit into inappropriate test requesting and which I will prepare as a poster for a scientific conference later this year. As part of my own education I am preparing for a management and leadership course offered by the Association for Clinical Biochemistry. Success with my FRCPath examinations will be a critical step along the road to a consultant post and in the mean time, continuing professional development, reviewing current journals and attending regional and national meetings keep me updated on recent developments.”

Clinical Laboratory Genetics

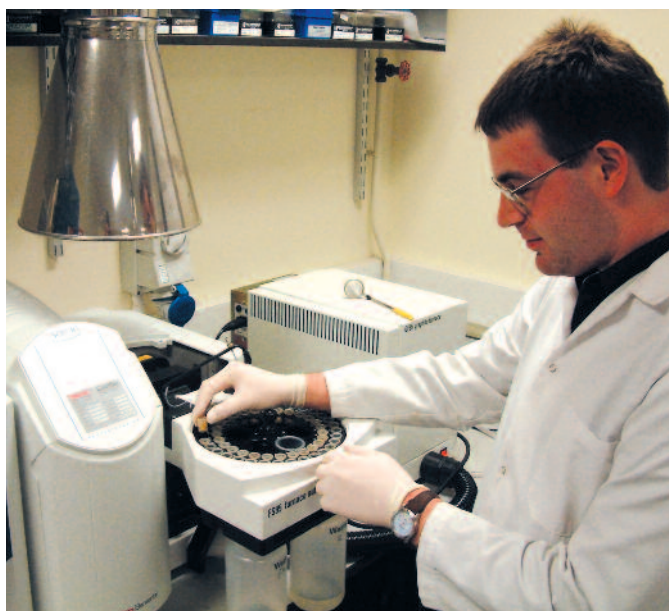
Following the successful launch of the genetics pilot training scheme in 2009 for Clinical Scientists trainees in genetics this will now be the modernised training scheme in genetics for all trainee Clinical Scientists. The overall aim of the Clinical Scientists training and education programme is to prepare the trainee to fulfil the function of a genetics scientists working in a clinical healthcare setting. The programme is designed to combine the traditional disciplines of molecular and cytogenetics and also to have a strong clinical and patient focus. The modules have been designed around specific patient pathways pertinent to genetic testing but recognising the developing technologies and their impact on future service delivery. The programme covers a wide range of patient pathways from learning disorders to cancer and population screening and includes clinical experiential learning in all modules.

Trainees will spend short learning modules in selected pathology disciplines designed to compliment the genetics training. These modules will be in the blood sciences and the cellular pathology divisions of Healthcare Scientists.

Running in parallel with the work based training will be a Master Degree in Clinical Science – Genetics, trainees will be expected to enrol on this course which has been specifically designed for this training programme.

Vacancy Code	No. of Posts	Location of Posts	Local Contacts	Accommodation Available	Interview Dates	Informal Laboratory Visits Welcome
EM5	1	Nottingham	Dr Tony Parkin Tel: 0115 9627 617, Email: tony.parkin@nuh.nhs.uk	No	2010	Yes, please contact Tony Parkin or Kate Martin
L3	1	St George's Hospital, London	Sally Cottrell Tel: 0208 7255 906, Email: sally.cottrell@stgeorges.nhs.uk	Possibly	2010	No, open day tba
L24	1	Northwick Park Hospital, Harrow	Stewart Payne Tel: 0208 869 3528, Email: stewart.payne@nwls.nhs.uk	Possibly	2010	Yes
EM4	1	Nottingham	Dr Abid Sharif Tel: 0115 9691 169 ext 57995, Email: abid.sharif@nuh.nhs.uk	No	2010	Yes
SW2	2	Southmead Hospital Bristol	Eileen Roberts Tel: 0117 323 5570, Email: genetics@nbt.nhs.uk	Yes	April/May 2010	Open day on the 26 January 2010. Contact for details.
SW4	2	Salisbury	Dr John Barber Tel: 01722 429 080, Email: john.barber@salisbury.nhs.uk	Temporary	2010	Yes

Vacancy Code	No. of Posts	Location of Posts	Local Contacts	Accommodation Available	Interview Dates	Informal Laboratory Visits Welcome
SW14	1	Exeter	Dr Carolyn Tysoe Tel: 01392 402946, Email: carolyn.tysoe@rdefn.nhs.uk	Temporary	2010	Yes
SW15	2	Salisbury	Dr John Harvey Tel: 01722 429080, Email: john.f.harvey@salisbury.nhs.uk	Temporary	2010	Yes
W5	1	Cardiff	Mr Selwyn Roberts Tel: 029 2074 2641, Email: selwyn.roberts@cardiffandvale.wales.nhs.uk	Yes	April/May 2010	Yes, please contact Rhian White: Rhian.white@cardiffandvale.wales.nhs.uk
WM5	2	Birmingham	Jennie Bell Tel: 0121 627 2710, Email: jenny.bell@bwhct.nhs.uk	No	2010	No, open afternoon early 2010



Clinical Embryology

A dynamic area dealing with infertility treatments, such as IVF, and other programmes. Healthcare Scientists are responsible for all stages of clinical IVF from the moment eggs are collected from patients, through fertilisation with sperm prepared from a partner, generation of embryos, culture of embryos to appropriate stages, and preparation for transfer back to the patient in order to generate a pregnancy. Unusually in medicine, Healthcare Scientists in Embryology are responsible for generating the treatments themselves. The many areas where advanced laboratory skills are required include: micromanipulation of eggs by microinjection of sperm, removal of cells (biopsy of embryos) for genetic analysis, grading of embryos in order to predict health and viability, cryopreservation of sperm, eggs and embryos as part of IVF treatment or to preserve fertility for cancer patients, and participation in cutting edge research including for example the generation of embryonic stem cells for the treatment of serious diseases.

Vacancy Code	No. of Posts	Location of Posts	Local Contacts	Accommodation Available	Informal Laboratory Visits Welcome
NW4	2	Liverpool & Manchester	Dr Daniel Brison Tel: 0161 276 6808, Email: daniel.brison@manchester.ac.uk	No	Shortlisted applicants only
SW8	1	Salisbury	Nicola Monks Tel: 01722 417 224, Email: nicola.monks@salisbury.nhs.uk	No	Yes
SW12	1	Bath	Dr Stephanie Gadd Tel: 01225 825 887, Email: stephanie.gadd@ruh.nhs.uk	No	Yes
W6	1	Cardiff	Andrew Gordon Tel: 02920 743047, Email: andrew.gordon@cardiffandvale.wales.nhs.uk	No	Yes
YH5	1	Sheffield	Rachel Cutting Tel: 01142 268063, Email: rachel.cutting@sth.nhs.uk	No	Yes

Clinical Haematology

Haematology is the study of the blood and blood-forming tissues. Healthcare Scientists play a major role in the diagnosis and monitoring of patients with disorders of the blood and bone marrow, for example: leukaemia and related blood cancers; anaemia; haemophilia and other bleeding and clotting problems; and sickle cell disease.

Vacancy Code	No. of Posts	Location of Posts	Local Contacts	Higher Degree as part of scheme - Qualification	Full or Part Time Higher Degree	Accommodation Available	Informal Laboratory Visits Welcome
L6	2	The Royal London Hospital and St. Bart's Hospital	Professor Marion Macey Tel: 0203 246 0228, Email: marion.macey@bartsandthelondon.nhs.uk	Yes – Mphil/PhD	PT	Yes	Shortlisted applicants only

Clinical Immunology

Concentrates on conditions that affect the immune system. Healthcare Scientists are involved in the diagnosis and monitoring of abnormal immune responses such as allergies, leukaemia and HIV.

Vacancy Code	No. of Posts	Location of Posts	Local Contacts	Pre & Post Higher Degree Applicants Considered	Funded Higher Degree	Full or Part Time Higher Degree	Accommodation Available	Interview Dates	Informal Laboratory Visits Welcome
L8	2	St Helier's Hospital	Dr Amolak Bansal or Brian Ford Tel: 0208 296 2808 – 0208 296 2142 Email: amolak.bansal@esth.nhs.uk - Brian.ford@esth.nhs.uk	Yes	Yes	PT	No	2010	Yes, contact Brian Ford
NW11	1	Royal Preston Hospital	Dr Anthony Rowbottom Tel: 01772 522130 Email: anthony.rowbottom@lthtr.nhs.uk	Yes	Yes	PT	No	May/June 2010	Yes
SC7	1	Churchill Hospital, Oxford	Dr Bernadette Ferry Tel: 01865 225982 Email: berne.ferry@orh.nhs.uk	Yes	Yes	PT	Yes	April 2010	Shortlisted applicants only
SC16	1	Southampton	Rajee Goswami Tel: 023 8079 6229 Email: rajee.goswami@suht.swest.nhs.uk	Yes	Yes	PT	No	April/May 2010	Yes

Histocompatibility & Immunogenetics

Healthcare Scientists undertake tissue matching for organ and bone marrow transplants. They also develop and apply tests and treatments involving the manipulation of the immune system.

Vacancy Code	No. of Posts	Location of Posts	Local Contacts	Funded Higher Degree	Pre & Post Higher Degree Applicants Considered	Accommodation Available	Informal Laboratory Visits Welcome
L2	1	NHSBT – Tooting Centre, London	Dr Deborah Sage Tel: 0208 258 8348 Email: deborah.sage@nhsbt.nhs.uk	Yes	Yes	TBC	Contact via email
L14	1	Royal London Hospital, London	Dr Paul Sinnott Tel: 0203 246 0264 Email: paul.sinnott@bartsandlondon.nhs.uk	Yes	Yes	TBC	Contact via email
L15	1	Guy's Hospital, London	Dr Robert Vaughan Tel: 0207 188 7188 Email: robert.vaughan@kcl.ac.uk	Yes	Yes	TBC	Contact via email
L16	1	Hammersmith Hospital, London	Mr Nick Davey Tel: 0203 246 0264 Email: ndavey@hhnt.org	Yes	Yes	TBC	Contact via email
L17	1	Blood & Transplant Centre, Colindale	Dr Colin Brown Tel: 0208 258 2811 Email: colin.brown@nhsbt.nhs.uk	Yes	Yes	No	Yes
NW2	2	Manchester Royal Infirmary	Amanda Robson Tel: 0161 276 6656/6397 Email: amanda.robson@cmft.nhs.uk	Yes	Yes	No	Yes, open day on the 28 January 2010
W11	1	Welsh Transplantation and Immunogenetics Laboratory, Pontyclun	Dr Tracey Rees Tel: 01443 622 175 Email: tracey.rees@wbs.wales.nhs.uk	N/A	Yes	No	No

Microbiology

The study of organisms (bacterial, viral, fungal and parasitic) that cause infections. A large part of the work is in the identification of microorganisms and in determining the most effective antimicrobial agent to use in the treatment. Healthcare Scientists also work with the Infection Control specialists and the Health Protection Agency, in disease control and to prevent and manage epidemics.

Vacancy Code	No. of Posts	Location of Posts	Local Contacts	High Degree as Part of Scheme – Qualification	Accommodation Available	Informal Laboratory Visits Welcome
L13	4	The Royal Free, London	Simon Rattenbury Tel: 0207 794 0500 ext 33276, Email: simon.rattenbury@royalfree.nhs.uk	Yes - MSc	No	No
NW3	2	Wythenshawe Hospital, Manchester	Professor Malcolm Richardson Tel: 0161 291 5914 or 2124, Email: malcolm.richardson@manchester.ac.uk	Yes - MSc	Possibly	Please contact for details of an open day
YH9	2	Leeds General Infirmary, Leeds	Dr Peter Mackie Tel: 0113 392 8665, Email: p.mackie@nhs.net	Yes - MSc	N/A	N/A

Analytical Toxicology

Analytical Toxicology is concerned with the detection, identification and measurement of drugs and other foreign compounds (xenobiotics) and their metabolites in biological and related specimens. The Analytical Toxicologist advises on the diagnosis, management, and in some cases, the prevention of poisoning.

Vacancy Code	No. of Posts	Speciality	Location of Posts	Local Contacts	High Degree as Part of Scheme – Qualification	Pre & Post Higher Degree Applicants Considered	Accommodation Available	Interview Dates	Informal Laboratory Visits Welcome
L12	2	Analytical Toxicology	King's College Hospital	Prof RJ Flanagan Tel: 0203 299 5824 Email: robert.flanagan@kch.nhs.uk	Yes - MSc	Yes	Yes	2010	Yes

Physiological Science

Healthcare Scientists who work in physiological sciences investigate the functioning of organ/body systems to diagnose abnormalities, and find ways to restore function and/or reduce the disabling consequences to the patient. The nature of the work in this area features direct interaction with patients and the use of specialist equipment. The majority work in hospital clinics, departments or as part of a medical or surgical team in the community. Some visit patients in their homes or schools.

Audiology

Healthcare Scientists develop and implement new techniques to measure and evaluate people's hearing and balance, fit and adjust aids, and offer therapeutic techniques to improve the quality of people's lives. They work with children or adults as well as special needs groups, and are involved in the delivery of long-term treatment, management and care.

Vacancy Code	No. of Posts	Location of Posts	Local Contacts	Higher Degree as part of scheme - Qualification	Pre & Post Higher Degree Applicants Considered	Accommodation Available	Interview Dates	Informal Laboratory Visits Welcome
E2	1	Norfolk & Norwich University Hospital	Dr John E FitzGerald Tel: 01603 288 906 Email: john.fitzgerald@nnuh.nhs.uk	Yes – MSc	Yes	Yes	2010	No
E4	2	Cambridge	Richard Knight Tel: 01223 217797 Email: richard.knight@addenbrookes.nhs.uk	Yes – MSc	Yes	No	2010	No
NW1	2	Manchester	Dr Graham Day Tel: 0161 217 3150 Email: graham.day@uhsm.nhs.uk	Yes – MSc	Yes	No	April 2010	Contact your local Audiology Department
SC1	5	Royal Berkshire Hospital, Reading	Mr Andy Phillips Tel: 0118 322 7074 Email: Andrew.phillips@royalberkshire.nhs.uk	Yes – MSc	Yes	Yes	March/ April 2010	Yes
SC6	1	East Berkshire Audiology Unit, Windsor	Dr Jagjit K Sethi Tel: 01753 636 225 Email: jagjit.ssethi@berkshire.nhs.uk	Yes – MSc	Yes	No	March/ April 2010	Yes

Vacancy Code	No. of Posts	Location of Posts	Local Contacts	Higher Degree as part of scheme - Qualification	Pre & Post Higher Degree Applicants Considered	Accommodation Available	Interview Dates	Informal Laboratory Visits Welcome
SC14	1	Portsmouth	Huw Thomas Tel: 02392 286 727 Email: huw.thomas@porthosp.nhs.uk	Yes – MSc	Yes	No	May 2010	Yes
SE1	1	Brighton	Rob Low Tel: 01273 664809 Email: rob.low@bsuh.nhs.uk	Yes – MSc	Yes	No	April 2010	Yes
SW3	1	Bath	Andrew Reid Tel: 01225 824035 or 824037 Email: andrew.reid@ruh-bath.swest.nhs.uk	Yes – MSc	Yes	No	2010	Yes
W1	1	Singleton Hospital, Swansea	Rhys Meredith Tel: 01792 285270 Email: rhys.meredith@abm-tr.wales.nhs.uk	Yes – MSc	Pre MSc only	No	May/ June 2010	Yes
W3	2	North Wales	Dr Marie Doran Tel: 01745 534 607 Email: marie.doran@cd-tr.wales.nhs.uk	Yes – MSc	Yes	Yes	March/ April 2010	Yes
WM1	1	City Hospital, Birmingham	Dr Suki Dhillon Tel: 0121 507 6089 Email: suki.dhillon@swbh.nhs.uk	Yes – MSc	Pre MSc only	No	April 2010	Yes, please contact kathryn.hinton@swbh.nhs.uk
YH4	TBC	Sheffield	Mrs Alison Walsh Tel: 0114 271 2688 Email: alison.walsh@sth.nhs.uk	Yes – MSc	Yes	No	2010	Yes, open half day will be arranged please contact for details

Medical Physics & Clinical Engineering

Healthcare Scientists in this area, use their skills to develop methods of measuring what is happening in the body, devise new ways of diagnosing and treating disease, and ensure that equipment is functioning safely and effectively. They support and develop techniques such as ultrasound, radioactivity, radiation, magnetic resonance and clinical photography to explore or record the workings of the body for diagnosis, monitoring and treatment, radiotherapy, nuclear medicine, X-ray imaging, ultrasound and magnetic resonance.

Vacancy Code	No. of Posts	Speciality	Location of Posts	Local Contacts	Higher Degree as part of scheme - Qualification	Pre & Post Higher Degree Applicants Considered	Accommodation Available	Interview Dates	Informal Laboratory Visits Welcome
E1	3	Medical Physics & Clinical Engineering	Cambridge	Dr Peter Jarritt Tel: 01223 216719 Email: peter.jarritt@addenbrookes.nhs.uk	Yes – MSc	Yes	Yes	April 2010	Yes, please contact janet.backer@addenbrookes.nhs.uk
EM6	2	Medical Physics	Leicester Royal Infirmary	Mike Dunn Tel: 0116 258 6750 Email: mike.dunn@uhl-tr.nhs.uk	Yes – MSc	Yes	Short Term	April 2010	Open days 10 December 2009 and 27 January 2010. Contact for details
EM8	4	Medical Physics & Clinical Engineering	Nottingham and Lincoln	Martin Cawley Tel: 01522 572281 Email: martin.cawley@ulh.nhs.uk	Yes – MSc	Yes	No	2010	Yes
L19	4	Medical Physics & Bioengineering	St Georges, London	Andy Irwin Tel: 0208 725 1469 Email: andrew.erwin@stgeorges.nhs.uk	Yes – MSc	Yes	No	2010	Yes
L20	7	Medical Physics & Clinical Engineering	Kings College London	Gill Clarke/Cornelius Lewis Tel: 0203 2991630 Email: Gillian.clarke@kch.nhs.uk or Cornelius.lewis@kch.nhs.uk	Yes – MSc	Yes	Yes	April 2010	No, open days to be arranged see website for details
L21	8	Medical Physics & Clinical Engineering	Throughout London	Roy Smith or Claire Hardiman Tel: 0207 830 2464 or 01923 844830 Email: r.smith@medsch.ucl.ac.uk or claire.hardiman@nhs.net	Yes – MSc	Yes	No	March/ April 2010	Yes

Vacancy Code	No. of Posts	Speciality	Location of Posts	Local Contacts	Higher Degree as part of scheme - Qualification	Pre & Post Higher Degree Applicants Considered	Accommodation Available	Interview Dates	Informal Laboratory Visits Welcome
NE3	4	Medical Physics	Throughout North East	Dr A Mackie Tel: 0191 333 2219 Email: alison.mackie@cddft.nhs.uk	Yes - MSc	Pre MSc only	Possibly	2010	Yes
NW7	6	Medical Physics	Manchester and Preston	Andy Shaw Tel: 0161 446 3550 Email: andy.shaw@physics.cr.man.ac.uk	Yes - MSc	Yes	No	April 2010	Yes
NW8	5	Medical Physics and Clinical Engineering	Royal Liverpool University Hospital Clatterbridge Centre for Oncology, Wirral	Lynsey McNally Tel: 0151 706 4202 Email: mtc@clineng-liverpool-nhs.com	Yes - MSc	Yes	No	2010	No, open day in January/February 2010 please visit www.clineng-liverpool-nhs.com/mtc for details
SC8	4	Medical Physics	Reading Oxford Northampton	Maggie Hills (Reading) Tel: 0118 322 7355 Email: maggie.hills@royalberkshire.nhs.uk Dr Chris Gibson (Oxford) Tel: 01865 235324 Email: chris.gibson@orh.nhs.uk Dr S Evans (Northampton) Tel: 01604 545 450 Email: stephen.evans@ngh.nhs.uk	Yes - MSc	Yes	Yes	April 2010	Yes
SC9	1	Clinical Engineering	Oxford	David Long/Julie Stebbins Tel: 01865 227 600/227 609 Email: dave.long@noc.nhs.uk Or julie.stebbins@noc.nhs.uk	Yes - MSc	Yes	No	2010	Contact for details
SC15	2	Medical Physics	Portsmouth	Dr M Hosseini-Ashrafi Tel: 023 922 86000 ext 4084 Email: mir.hosseini-ashrafi@porthosp.nhs.uk	Yes - MSc	Yes	No	April 2010	Open day to be arranged contact for details
SC17	1	Clinical Engineering	Portsmouth	Dr M Hosseini-Ashrafi Tel: 023 922 86000 ext 4084 Email: mir.hosseini-ashrafi@porthosp.nhs.uk	Yes - MSc	Yes	No	April 2010	Open day to be arranged contact for details

Vacancy Code	No. of Posts	Speciality	Location of Posts	Local Contacts	Higher Degree as part of scheme - Qualification	Pre & Post Higher Degree Applicants Considered	Accommodation Available	Interview Dates	Informal Laboratory Visits Welcome
SE4	4	Medical Physics	Brighton (Two) Maidstone (One) Canterbury (One)	Dr J E Lutkin (Brighton) Tel: 01273 664 597 Dr David Bonnett (Maidstone) Tel: 01622 225 005 Mark Hanson (Canterbury) Tel: 01227 864148	Yes - MSc	Yes	No	April/May 2010	Yes
SW6	1	Medical Physics	Bath	Dr Hazel Starritt Tel: 01225 824 085 Email: hazel.starritt@ruh-bath.swest.nhs.uk	Yes - MSc	Yes	Yes	April 2010	Yes
SW7	2	Medical Physics	Bristol	Dr M Halliwell Tel: 0117 3426318 Email: mike.halliwell@uhbristol.nhs.uk	Yes - MSc	Yes	Yes	April 2010	Yes
SW9	1	Medical Physics	Royal Devon and Exeter NHS Foundation Trust	Mr Steve Blake Tel: 01392 402 127 Email: steve.blake@rdefn.nhs.uk	Yes - MSc	Yes	Yes	March 2010	Yes
SW10	TBC	Clinical Engineering	Salisbury	Dr Duncan Wood Tel: 01722 439 543 Email: d.wood@mpbe-sdh.demon.co.uk	Yes - MSc	Yes	Possibly	2010	Yes
SW11	1	Medical Physics	Plymouth and Truro	Dr Richard Cranage Tel: 01872 252 490 Email: Richard.cranage@rcht.cornwall.nhs.uk	Yes - MSc	Yes	Possibly	April 2010	Yes
SW13	1	Medical Physics	Gloucestershire Hospitals	Kathleen Farrant Tel: 0845 4226 117 Email: kathleen.farrant@glos.nhs.uk	Yes - MSc	Yes	Possibly	April 2010	Yes, please contact Linda Arnold on 08454 224025
W2	1	Medical Physics	Glan Clwyd Hospital, Rhyl	Mrs Alison McVey Tel: 01745 445112 Email: alison.mcvey@wales.nhs.uk	Yes - MSc	Yes	Assistance finding accommodation available	2010	Yes

Vacancy Code	No. of Posts	Speciality	Location of Posts	Local Contacts	Higher Degree as part of scheme - Qualification	Pre & Post Higher Degree Applicants Considered	Accommodation Available	Interview Dates	Informal Laboratory Visits Welcome
W8	4	Medical Physics	Cardiff Swansea	Dr Grace Carolan-Rees (Cardiff) Tel: 029 206 82120 Email: grace.carolan-rees@cardiffandvale.wales.nhs.uk Dr Simon Ryde Tel: 01792 205 776 Email: simon.ryde@abm-tr.wales.nhs.uk	Yes - MSc	Yes	Assistance finding accommodation available	2010	Yes
W9	2	Clinical Engineering	Cardiff Swansea	Dr Grace Carolan-Rees (Cardiff) Tel: 029 206 82120 Email: grace.carolan-rees@cardiffandvale.wales.nhs.uk Mr Nigel Shapcott (Swansea) Tel: 01792 205776 Email: nigel.shapcott@abm-tr.wales.nhs.uk	Yes - MSc	Yes	Assistance finding accommodation available	2010	Yes
WM4	8	Medical Physics and Biomedical Engineering	Birmingham Coventry Stoke Wolverhampton	Dr N R Williams Tel: 02476 968212 or 02476 967051 Email: Nigel.r.williams@uhcw.nhs.uk	Yes - MSc	Yes	No	March/April 2010	Yes
YH1	2	Medical Physics	Sheffield	Mr Lee Walton Tel: 0114 2711 783 Email: lee.walton@sth.nhs.uk	Yes - MSc	Yes	No	2010	Yes, open day to be arranged.
YH2	1	Clinical Engineering	Hull	Bill Watts Tel: 01482 608964/52/54 Email: bill.watts@hey.nhs.uk	Yes - MSc	Yes	Short Term	2010	Yes
YH3	6	Medical Physics	Leeds Bradford	Mrs Alexis Moore Tel: 0113 3922 836 Email: acm@medphysics.leeds.ac.uk	Yes - MSc	Yes	No	March/April 2010	Open day 8 January 2010
YH6	2	Medical Physics	Hull	Prof Andy Beavis Tel: 01482 461383 Email: andy.beavis@hey.nhs.uk	Yes - MSc	Yes	No	2010	Yes

A Day in the Life of a Trainee Clinical Engineer

"My work is all about learning and experiencing the different roles that clinical engineers perform, so a good proportion of my time is spent shadowing and actively working with these people. The areas I have experienced are focused around assistive technologies, biomechanical evaluation and function and medical equipment management. However mechanical and electrical design as well as physiological measurement may also be available, with individual training centres often allowing the trainee to tailor their time to suite their personal preferences.

In addition to the practical work I am able to perform I have to put together portfolios to provide evidence of the work I am undertaking, and in many cases, the first two years of training will include the undertaking of a postgraduate MSc programme.

At the end of my first two years of training, which are aimed at educating the trainee regarding the broad spectrum of clinical engineering roles available, I will move into a more specialised post where I will perform the role of a clinical engineer under the guidance of a qualified supervisor. The aim of this second period of training is to allow the trainee to get to grips with their chosen specialism and provide a means for that trainee to prove themselves competent to the relevant governing body (via portfolio submission and viva voce assessment) so that they might practice independently, taking full responsibility for their work.

An additional benefit of the scheme is that it is tailored to complete the majority of the Engineering Council's requirements for Chartered Engineer (CEng) status, allowing clinical engineering trainees to achieve CEng in a little over four years."

A Typical Day

Michael Worn: Trainee Clinical Engineer

"Today I am working on my MSc dissertation where I am trying to develop a switch with dual pressure thresholds, allowing a minimum level of pressure to activate the switch and a further 'high' threshold to deactivate the switch. The aim is to provide a mechanism of communication aid access or wheelchair control that will allow the patient to activate the switch voluntarily but will not register switch activations due to spasms. To achieve this I have been working on an electromechanical design, which I intend to build and test. In addition, the pioneering nature of this work may involve substantial accompanying research.

Today's example is one of the larger projects that I have been involved in, though a good proportion of my typical day-to-day work may involve the development of 'off the shelf' or custom solutions for patients' communication aid, mobility or environmental control needs."

