



Modernising Scientific Careers
in the divisions of Physical Sciences &
Biomedical Engineering
(with themes in Medical Physics
and Clinical Engineering)

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CF1-4

Roles proposed but not yet agreed in PSE

Medical Engineering

- Radiation Protection assistant
- Imaging Dept assistant
- Radiopharmacy production assistant
- Scanning operative
- Rehabilitation Engineering
- Equipment Maintenance
- Storeman
- Critical Care assistant
- Maintenance of devices assistant

Medical Physics

- Dosimetry assistant
- Radiation Protection assistant
- Imaging Dept assistant
- Radiopharmacy production assistant
- Scanning operative assistant

Emerging Cross Specialty and Cross Divisional Roles

- CF3/4 in Nuclear Medicine and ECG
- CF4 in Radiation Physics and Vascular Physiology

Practitioner Training Programme in Medical Physics

Current Medical Physics provision :

- DeMontfort University is currently the only University for Medical Physics which is 'accredited with conditions and recommendations' through the MSC Accreditation process

Planned future provision:

- The 3 southern SHA regions are pooling their placement capacity to encourage the development of a PTP at the University of West of England with a view to starting in 2012.

PTP BSc Curricula for Medical Physics can be accessed at :

<http://www.networks.nhs.uk/nhs-networks/msc-framework/curricula/documents/BSc%20-Hons%20in%20Healthcare%20Science%20%20Medical%20Physics%20Technology%202010-11%20.pdf>

PTP BSc Training Manual for Medical Physics can be found at:

<http://www.networks.nhs.uk/nhs-networks/msc-framework/curricula/documents/BSc%20Medical%20Physics%20Technology%20Traini%20Manual%20201011.pdf/view>

Practitioner Training Programme in Clinical Engineering

Current Clinical Engineering provision:

- Currently no accredited programmes available for 2011

Planned future provision:

- Engineering has always been a challenge at this level, but there are several current lines of development, aiming for a 2012 start
 - Eastwood Park (validated by Kingston)
 - King's College (London).
 - Coventry is potentially developing a PTP programme in Rehab Engineering
 - Bradford visited by the accreditation panel in 2010; have just responded to comments from the visit; their responses to the conditions are being processed

BSc PTP Curricula for Clinical Engineering can be accessed on:

<http://www.networks.nhs.uk/nhs-networks/msc-frameworkcurricula/documents/BSc%20-Hons%20in%20Healthcare%20Science%20-%20Clinical%20Engineering%202010-11.pdf>

BSc PTP Training manual for Clinical Engineering

<http://www.networks.nhs.uk/nhs-networks/msc-frameworkcurricula/documents/BSc%20Clinical%20Engineering%20Training%20Manu%202010-11.pdf>

Scientist Training Programme in Medical Physics

Current Masters (MSc) Medical Physics provision:

(commencing October 2011). The part time Master's provision will be provided by :

- King's College, London
- Liverpool Universities
- Newcastle Universities

These universities went through a competitive tendering process led by W Midlands as well as a separate Modernising Scientific Careers accreditation interview panel

The MSc Medical Physics curriculum can be accessed on:

<http://www.networks.nhs.uk/nhs-networks/msc-framework-curricula/documents/MSc%20Medical%20Physics%202010-11%20v2.pdf>

The STP Trainee Learning Guides for Medical Physics can be accessed on this page (one Learning Guide/specialism) :

<http://www.networks.nhs.uk/nhs-networks/msc-framework-curricula/stp>

STP in Clinical Engineering

Current provision in Clinical Engineering:

- King's College, London

MSc curriculum for Clinical Engineering with specialisms in Rehabilitative Engineering, Clinical Measurement and Development, Device Risk Management and Governance can be accessed

on:

<http://www.networks.nhs.uk/nhs-networks/msc-framework-curricula/documents/MSc%20Clinical%20Engineering%202010-11%20v2.pdf>

STP Trainee Learning Guides for Clinical Engineering can be accessed on:

<http://www.networks.nhs.uk/nhs-networks/msc-framework-curricula/stp>

HSST development by Healthcare Science Discipline/Specialties

Healthcare Science Specialisms	Main Medical Specialties	Medical Royal College involved in for Curriculum Development
<i>Physics Sciences and Engineering</i>		
Imaging Sciences	Clinical Radiology/ Nuclear Medicine	RCR RCP
Biomedical Engineering	Theatres, Anaesthetics, Intensive Care, Paediatrics, Renal	RCP/RCS/RCR
Rehabilitation Engineering	Orthopaedics Rehabilitation Medicine/Stoke Med	RCS/RCP
Radiation Safety	Clinical Radiology Clinical Oncology Nuclear Medicine	RCR/RCP
Radiotherapy Physics	Clinical Oncology	RCR/RCP/RCOG/RCS
Maxillofacial Prosthetics and Reconstruction (very small ~ 10-15 nationally. (? about Material Science)	Oral and Maxillary Surgery Breast surgery and other surgical specialties with a need/interest in reconstructive services	RCS/RCOphth (only <u>after</u> STP programme developed).