National Cancer Control Programme

National Radiation Oncology Physics Residency Programme

The National Radiation Oncology Physics Residency Programme (NROPRP) was established in 2007 by the Health Service Executive’s National Cancer Control Programme (NCCP) to provide a dedicated national training programme for physicists entering the profession in the field of radiation oncology.

The programme is governed at a policy level by the National Radiation Oncology Physics Residency Committee (NROPRC). The programme operates as a national programme, and all standards, procedures and policies are developed and implemented on a national basis, overseen by the NROPRC. There is ongoing and continuous engagement of staff and residents involved in the residency programme across the two participating centres.

The training programme formally commenced in May 2008 with the appointment of 5 residents and 1.5 dedicated training coordinator posts. Since that time the programme has graduated 9 residents, 8 of whom are currently working as medical physicists in Ireland.

In October 2008 an application for accreditation of the training programme was submitted to the Commission on Accreditation of Medical Physics Educations Programs (CAMPEP). Following a site evaluation visit by CAMPEP in May 2009 the programme was granted full accreditation status. More information can be found on CAMPEP by accessing www.campep.org.

Key Objectives

The key objectives of the programme include:

- Providing residents with comprehensive training in the core competencies required to deliver a high standard of radiation oncology physics at an operational and clinical level.
- Preparing residents for certification and registration and a professional career in radiation oncology.
- Preparing residents for academic leadership and research in the clinical environment.
- Supporting the workforce planning objectives of the HSE’s National Cancer Control Programme (NCCP).

Training Delivery

Residents are given a clinical placement in a medical physics department and provided with comprehensive training in the core competencies required to deliver a high standard of radiation oncology physics at an operational and clinical level.

Training is delivered at local hospital level under the supervision of a training coordinator and designated supervisor. Training coordinators liaise with others in...
the physics department to organise the delivery of the programme in a manner which allows each resident to gain core competencies across the programme curriculum.

Assessment
Residents are fundamentally assessed against the job specifications as provided with the position and the clinical competencies, which are consistent with The American Association of Physicists in Medicine (AAPM) Report 90. (http://www.aapm.org/pubs/reports/RPT_90.pdf) and CAMPEP requirements (http://www.campep.org/ResidencyStandards.pdf)

Methods used for assessment include, but are not limited to:
- Observation during training and regular meetings with supervisors
- Formal interviews with residents following completion of clinical competency rotations, approximately every three months
- Evaluation of clinical project reports and project presentations
- Review of training logbook/portfolio of evidence that confirms the appropriate level of competency has been reached in all areas of the curriculum consistent with the standards set by the Committee
- Formal assessment interview and/or examination at the end of year one
- Formal end of training assessment interview, examination (written or oral) and clinical presentation

Final evaluation and assessment of the candidate’s performance and level of competence is determined by the Committee.

Programme Completion
Residents are required to successfully meet all programme components to ensure satisfactory completion of the programme. It comprises the successful completion and attainment of competencies in a number of areas:
- Clinical Competencies (assessed through a series of defined clinical rotation modules: Induction, Machine QA and Dosimetry, Treatment Planning, Brachytherapy/Imaging, Advanced Treatment Planning, Advanced Dosimetry, Clinical projects).
- Other competencies (Introduction into safety and risk, psychology of cancer, patient confidentiality, ethical considerations in cancer, and equipment procurement)
- Research and development
- Organizational and communication skills

Satisfactory completion of the training programme is contingent on obtaining all of the required competencies to the required standard. Those standards are based on the CAMPEP curriculum requirements as assessed by the NROPRC.

Residents enrolled in the standard programme are expected to complete the programme within a two year timeframe.

Residents enrolled on the integrated PhD programme are expected to complete the programme with a five year timeframe. The first year of the integrated PhD programme is common with the first year of the standard programme. The format of the second year of training is a tailored learning programme to suit the individual
resident and their research requirements. The two year training element of the programme should be completed by the end of the fourth year of the integrated PhD programme. The university is responsible for determining the completion of the PhD element of the programme.

Training Centre Locations
At present training centres exist in the Galway and Roscommon University Hospital Group and St. Luke’s Radiation Oncology Network, Dublin. Cork University Hospital is expected to become part of the training programme in the near future. Residents may be required to rotate through different centres to complete their training. This may involve short periods for localised training events or longer periods where residents will be required to move locations to complete their training.

Admission
Residency positions are advertised when available. For further information contact:
Prof. Brendan McClean (Programme Director) Brendan.McClean@slh.ie
Admission to the standard programme follows the HSE recruitment and interview procedure and the management of the process is undertaken jointly between the Public Appointments System (PAS), the HSE and the National Radiation Oncology Physics Residency Committee. (http://www.hse.ie/portal/eng/staff/jobs/Careers.html)
Admission to the integrated PhD programme follows the university recruitment and interview procedure, including open advertisement, shortlisting and interview. The recruitment process is undertaken jointly with the National Radiation Oncology Physics Residency Committee and the interviewing panel comprises members of the university and the residency committee.

Employer and Remuneration
Residents enrolled in the standard programme are given a 2 year fixed term clinical placement in a medical physics department. They are appointed to the HSE’s National Cancer Control Programme irrespective of their location. The resident salary is paid on the basis of the 1st point on the trainee physicist grade pay scale and increases will be in accordance with the Department of Health and Children (DoHC) salary scales and HSE terms and conditions of employment.
Residents enrolled on the integrated PhD/residency programme are enrolled on a 5 year part-time PhD programme at the university and provided with an annual stipend. Funding for the stipend, fees, training and consumables will be transferred to the university by the NCCP on an annual basis.

Programme Statistics
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<th>Year</th>
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* No recruitment

**Integrated PhD/residency programme