MSc Medical Radiation Physics

[Medical Radiation Physics, MSc - Swansea University](https://www.swansea.ac.uk/postgraduate/taught/medicine/medical-radiation-physics-msc/)

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| **Tuition Fees:**January 2024: £22,300 or September 2024: £24,550 | **Entry points:**September and January **(In-person only)** |
| **Suitable Academic Background:** minimum UK 2:2 degree [(check equivalencies for your country)](https://www.swansea.ac.uk/media/2023-Country-specific-information-for-international--EU-PG-applicants.pdf)* Engineering
* Nanotechnology
* Physics/ Physical Sciences
* Mathematics (including Statistics)
* Computer Science
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| **English Language Requirement**: IELTS 6.5 with no less than 6.0 in all components (or Swansea University Recognised equivalents) [Check Swansea University Approved Tests and Qualifications here](https://www.swansea.ac.uk/admissions/english-language-requirements/) |
| **This programme requires an ATAS Certificate** |

***Suitable degree background as guidance – eligibility can only be confirmed once a full application has been received and reviewed.***

**What is the Programme about?**

* The study of the use of radiation in clinical practice and medicine – this is a rapidly changing field.
* This programme is suitable for students interested in pursuing a career in practice and use of radiation in the clinical setting.
* This degree is ideal preparation for Postgraduate research in medical physics technology and is also a pathway towards state registration as a clinical scientist.
* You’ll get clinical practice through hands-on instruction with equipment used routinely in the hospital setting, including state-of-the-art MRI and CT facilities, and medical linear accelerators, which will prepare you for research or clinical training.
* Tuition in computer-based modelling, research methodology and the ethical dimensions associated with medical research.

**Important Things To Note**

* We are (Ranked 4th in UK) Top 5 for overall research quality (Research Excellence Framework 2021)
* 97% of our research outputs rated as world-leading or internationally excellent (Research Excellence Framework 2021)

**Accreditation:**

* This programme is accredited by the Institute of Physics and Engineering in Medicine (IPEM) – a professional body that works with physical science, engineering and clinical professionals in academia, healthcare services and industry in the UK, and supports clinical scientists and technologists in their practice through the provision and assessment of education and training.

**Modules Within The Programme**

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| [Medical Imaging](https://intranet.swan.ac.uk/catalogue/default.asp?type=moddetail&dept=any&mod=PMPM04&ayr=23%2F24&psl=TB1&detailOnly=false) | [Nuclear Medicine and Diagnostic Radiology](https://intranet.swan.ac.uk/catalogue/default.asp?type=moddetail&dept=any&mod=PMPM08&ayr=23%2F24&psl=TB1&detailOnly=false) |
| [Radiation Protection](https://intranet.swan.ac.uk/catalogue/default.asp?type=moddetail&dept=any&mod=PMPM09&ayr=23%2F24&psl=TB1&detailOnly=false) | [Radiotherapy Physics](https://intranet.swan.ac.uk/catalogue/default.asp?type=moddetail&dept=any&mod=PMPM10&ayr=23%2F24&psl=TB1&detailOnly=false) |
| [Introduction to the practice of Medical Physicists & Clinical Engineers in Health Care](https://intranet.swan.ac.uk/catalogue/default.asp?type=moddetail&dept=any&mod=PMRM00&ayr=23%2F24&psl=TB1&detailOnly=false) | [Nanoscale Simulation](https://intranet.swan.ac.uk/catalogue/default.asp?type=moddetail&dept=any&mod=EGNM03&ayr=23%2F24&psl=TB2&detailOnly=false) |
| [Research Methods in Medical Physics and Clinical Engineering](https://intranet.swan.ac.uk/catalogue/default.asp?type=moddetail&dept=any&mod=PMPM02&ayr=23%2F24&psl=TB2&detailOnly=false) | [Advances in Radiotherapy](https://intranet.swan.ac.uk/catalogue/default.asp?type=moddetail&dept=any&mod=PMPM11&ayr=23%2F24&psl=TB2&detailOnly=false) |
| [Advances in Radiation Safety](https://intranet.swan.ac.uk/catalogue/default.asp?type=moddetail&dept=any&mod=PMPM19&ayr=23%2F24&psl=TB2&detailOnly=false) |

**Employability - examples of roles after graduation**

* Trainee Clinical Scientist
* Pre-Registration Scientists Positions
* Radiation Protection Expert