MSc Nanomedicine

[Nanomedicine, MSc / PGDip / PGCert - Swansea University](https://www.swansea.ac.uk/postgraduate/taught/medicine/nanomedicine-msc-pgdip-pgcert/)

[Nanomedicine Masters Quick Guide - Swansea University](https://www.swansea.ac.uk/medicine/nanomedicine-quick-guide/)

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| **Tuition Fees:**January 2024 or September 2024: £24,200 | **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)* Biochemistry/ Genetics/ Microbiology
* Biology/ Biomedical Science/ Biosciences/ Bioengineering/ Biophysics
* Biotechnology
* Chemical Engineering/ Medical Engineering
* Chemistry/ Pharmaceutical Science/ Pharmacology/ Pharmacy
* Forensics
* Healthcare Science (Genetics/ Infection Sciences/ Cellular Science/ Blood Sciences)
* Medical Science/ Medical Laboratory Science
* Medical Engineering
* Marine Biology
* Microbiology
* Medicine
* Physics
* Physiology
* Zoology
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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/) |

***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 nanotechnology in a healthcare and life science setting, working with matters and machines in the nano scale of 1 – 100 nanometers (one billionth of a meter).
* Application of **biotechnology** and **advanced engineering** into Medicine
* Nanomedicine is used for medical purposes in three areas – diagnosis, controlled drug delivery and regenerative medicine.
* Nanomedicine is the interface of clinical medicine, pharmaceutics, regenerative medicine, and nano(geno) toxicology. Increasing demand and awareness of nanotechnology applications in Medicine has lead to the emergence of Nanomedicine.

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**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)

**Modules within the Programme:**

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| [Laboratory Measurement Techniques for Medicinal Chemistry and Nanomedicine](https://intranet.swan.ac.uk/catalogue/default.asp?type=moddetail&dept=any&mod=PMLM01&ayr=23%2F24&psl=TB1&detailOnly=false) | [Nanomedicines, pharmaceuticals and advanced therapeutics](https://intranet.swan.ac.uk/catalogue/default.asp?type=moddetail&dept=any&mod=PMNM11&ayr=23%2F24&psl=TB1&detailOnly=false) |
| [Research Innovation and Management](https://intranet.swan.ac.uk/catalogue/default.asp?type=moddetail&dept=any&mod=PMNM12&ayr=23%2F24&psl=TB1&detailOnly=false) | [Data Analysis for Health and Medical Sciences](https://intranet.swan.ac.uk/catalogue/default.asp?type=moddetail&dept=any&mod=PMRM02&ayr=23%2F24&psl=TB1&detailOnly=false) |
| [Nano (geno) toxicology](https://intranet.swan.ac.uk/catalogue/default.asp?type=moddetail&dept=any&mod=PM-M28&ayr=23%2F24&psl=TB2&detailOnly=false) | [Regenerative Medicine](https://intranet.swan.ac.uk/catalogue/default.asp?type=moddetail&dept=any&mod=PMNM01&ayr=23%2F24&psl=TB2&detailOnly=false) |
| [Diagnostics and Imaging](https://intranet.swan.ac.uk/catalogue/default.asp?type=moddetail&dept=any&mod=PMNM02&ayr=23%2F24&psl=TB2&detailOnly=false) |

**Employability - examples of roles after graduation (Nanomedicine Careers)**

This programme incorporates industry-focused transferable laboratory, critical and soft skills in science communication, expanding career opportunities in:

* Food science (in medical and engineering)
* Scientific or clinical research careers
* Working in industry (biopharmaceutical and biotechnology)
* Professional Vocations - Graduate Entry Medicine, Physician Associates
* Academia - PhD
* Medical and scientific writing