Transforming personalised diagnosis and treatment
MSc Genomic Medicine
Genomic research is having an enormous impact on medicine and society at large. Understanding of individual genomes enables us to tailor medicine to an individual’s needs. It is vital that we equip health professionals with the knowledge and skills to change patient care for the better.

Dr Karen Temple
Professor of Medical Genetics

The University of Southampton’s MSc Genomic Medicine has been commissioned by Health Education England and is being offered by a network of centres across England to provide education and training in genomic medicine for health professionals from different backgrounds. These include medicine, nursing, public health, science and technology, for whom knowledge of genomics will impact on the way they deliver their service to patients and the public.

Our programme includes study of the genomics and informatics of rare and common diseases, cancer and infectious diseases, which can be applied to clinical practice and medical research, and enhance knowledge and skills in this rapidly evolving field.

Why study MSc Genomic Medicine?
Genomic technologies and information will transform practice across the clinical professions over the next decade.

On this programme you will be taught by experts from a range of academic and healthcare professional backgrounds chosen to ensure a breadth and depth of perspective, giving a good balance between theories and principles, and practical management advice.

Students who complete the programme with us will be equipped to harness the unprecedented transformation of the 100,000 Genomes Project, bringing benefit to their patients through improved diagnosis and personalised treatment, and disseminate knowledge to peers, patients and the public.

Who should study?
Our programme is suitable for clinical and non-clinical healthcare professionals including GPs, hospital-based doctors, nurses, pharmacists, pathologists, ethicists, scientists, psychologists and those working in public health and healthcare management. In particular it is suited to those seeking to make the most of genomic medicine as it applies to their current or future career.

What does our MSc provide?
Our programme provides a comprehensive perspective in genomics applied to clinical practice and medical research, with particular emphasis on the 100,000 Genomes Project, and comprises of eight core modules delivered through intensive face-to-face study and independent learning.

Our eight core modules include:
- Introduction to Human Genetics and Genomics
- Omic Techniques and their Application to Genomic Medicine
- Genomics of Common and Rare Inherited Diseases
- Molecular Pathology of Cancer and Application in Cancer Diagnosis, Screening and Treatment
- Pharmacogenomics and Stratified Healthcare
- Application of Genomics in Infectious Disease
- Genomic Informatics
- Research Project

Our programme route, and begin your studies in either October or March.

How to apply
Prospective students currently employed by the NHS may have their fees paid by Health Education England for the MSc, Diploma, PGCert or individual modules of study. Therefore either before, or in parallel with, application to the University, NHS staff should apply for financial support via Health Education England’s website: www.genomicseducation.hee.nhs.uk/genomicsmsc

For more information, including details on entry requirements and fees, please visit our website.

Start date
October or March

Programme Leader
Dr Deborah Mackay

Contact us
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www.southampton.ac.uk/genomics

“I enthusiastically support this programme in Genomic Medicine, given our commitment as part of Health Education England to raise knowledge across the healthcare workforce of genomics. By working together we can support as many professionals as possible to sign up.”

Dr Simon Plint
Postgraduate Dean, Health Education Wessex