

Manchester Pharmacy School

Professional Development (CPD), Certificate, Diploma to Masters (MSc) with flexible, modular learning.

The University of Manchester has a proud past, a ground-breaking present and an exceptional future.



Manchester Pharmacy School offers a wide range of postgraduate programmes up to Masters level to meet your career development and professional aspirations.

Many of our programmes are structured to study while you work and are offered as either entirely distance learning or online with occasional face-to-face education sessions in Manchester.

Find out more and register your interest at www.pharmacy.manchester.ac.uk/postgraduate/taught

Join our LinkedIn group to keep in touch with our developments and network with our global academics. Search for 'Manchester Pharmacy School'.

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Manchester Pharmacy School is dedicated to excellence and innovation in research and teaching. We are committed to advanced learning which is driven forward by our research in all aspects of the design, development and use of medicines, for the benefits of patients.

- Pharmaceutical science and pharmacy practice research at Manchester is world class, with the School ranked second in the most recent Research Assessment Exercise. 95% of our work is classified as internationally significant.
- According to the 2013 Shanghai Jiao Tong Academic Ranking of World Universities, The University of Manchester is the 41st best university in the world, the eighth best in Europe and the fifth best in the UK.

- The courses are delivered by university staff, subject and clinical experts from academic institutions, clinical settings and pharmaceutical companies from all over the world.
- Support for our postgraduate community with flexible, modular learning which fits round lifestyle and work commitments.
- A global approach with students welcomed from over 40 countries worldwide.
- Almost all our programmes can be studied to Postgraduate Certificate, Postgraduate Diploma and Masters level.

www.manchester.ac.uk/pharmacy



Clinical Pharmacy

We have two options for Clinical Pharmacy at the University of Manchester. These programmes are unique in offering a mix of clinical and healthcare management units.

Study in Manchester: This is a blended learning programme consisting of eight study days per year and an interactive, online learning platform which together enhance the students' clinical knowledge, teaching them to optimise drug therapy and develop their problem-solving skills. Students require a patient-facing role and will need both a suitable work environment and work-based tutor. Study days are mandatory. The programme is generally aimed at Band 6 and 7 pharmacists who are seeking to develop within the NHS.

Study online: This is a completely online programme and allows students to study from their home location, which is ideal for international students and those based outside the Manchester area. An interactive online platform is used, enhancing students' learning experiences through the use of innovative technologies.

Who are the courses for?

They are open to qualified pharmacists who would like to develop their clinical and management skills. The student would normally have one year post-registration experience and be working in a hospital or other patient-facing clinical role.

What you will learn?

The aim of the programmes is to promote excellence in the clinical and leadership skills of pharmacists who will take part in the future development of pharmacy services.

These unique programmes serve to enhance not only the student's clinical knowledge, teaching them to optimise drug therapy and develop their problem-solving skills, but in addition a variety of health services issues are explored, including health economics, patient perspectives on health and organisational influences on healthcare.

How will this help your career prospects?

These postgraduate qualifications allow pharmacists to develop their chosen career path within the pharmacy profession by providing advanced clinical knowledge, problem-solving skills and a critical awareness of the role of pharmaceutical services within the workplace. Optional specialist units allow pharmacists to directly align their learning with their career aspirations. The programmes develop pharmacists into individuals who can improve patient care by demonstrating leadership and excellent clinical skills.

Do you have any questions?

Contact: Maria Bell, Programme Director (Manchester-based programme) on maria.bell@manchester.ac.uk or call 0161 306 0604 or Jenny Silverthorne, Programme Director (Online programme) on jennifer.silverthorne@manchester.ac.uk or call 0161 306 0604.

MHRA CONTINUED PROFESSIONAL DEVELOPMENT PHARMACODYNAMICS THERAPEUTICS MSC DISTANCE LEARNING PHARMACOKINETICS PATIENT CARE CERTIFICATE DIPLOMA MASTERS MEDICINES SAFETY ADME MEDICINES ACT WORLD CLASS REGULATION CONTINUED PROFESSIONAL DEVELOPMENT PHASE 1, 2 & 3 PHARMA DISTANCE LEARNING HOSPITALS NEW MODELS OF CARE CERTIFICATE DIPLOMA EVIDENCE-BASED MEDICINE MASTERS STUDY WHILST YOU ARE WORKING SIX SIGMA COMMUNITY PHARMACY CAREER ADVANCEMENT LEGAL FRAMEWORK WORLD CLASS CPD QUALIFIED PERSON PORTFOLIO

Community Pharmacy Public Health Services

These postgraduate qualifications provide pharmacists with the knowledge and skills to direct and deliver efficient community pharmacy public health services. They aim to instil professionals with the confidence to actively seek out opportunities to be the chosen first-class provider of public health services.

The programmes run on a modular, part-time basis and are delivered completely online.

Students can take any unit (except the research dissertation unit) as a stand-alone CPD unit. These are delivered the same way and along with students studying for a postgraduate qualification.

Who is the course for?

- Community pharmacists: pursuing career advancement in public health, aspiring to develop and advance a Healthy Living Pharmacy, leaders in public health service delivery.
- Primary care based pharmacists: engaged in Local Professional Networks (LPNs), leading Local Pharmaceutical Committees (LPCs).

What you will learn?

The aim of this programme is to deliver the knowledge and skills to develop advanced public health practitioners within the evolution of community pharmacy public health services. It will enable you to develop a critical awareness of the strategic issues, policy and management of public health services in the current context of healthcare delivery. You can undertake optional units in a variety of services-related topics including: cancer awareness, detection and screening; cardiovascular disease and diabetes public health services; sexual health and substance misuse.

If you progress to Diploma level you will join colleagues studying on the Masters in Public Health to learn more about evidencebased practice and epidemiology.

Those with a desire to undertake research can advance to our Masters programme and be supported by one of our leading academic researchers to undertake a small-scale public health research project.

How will this help your career prospects?

This postgraduate qualification allows pharmacists to develop their chosen career pathway within community or primary care with a strong emphasis on emerging public health services and roles.

Do you have any questions?

Contact: Paula Higginson, Programme Director on paula.higginson@manchester.ac.uk or call 0161 778 4000.

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Independent Prescribing for Nurses and Pharmacists

This part-time, blended learning programme consists of eight face-to-face study days supplemented by an interactive, online learning environment and an electronic portfolio of practice. The approach taken by the programme provides the opportunity for students to develop the knowledge, skills and attitudes required to prescribe safely and effectively for patients in practice. The course is designed to develop students to successfully meet the standards set out by the General Pharmaceutical Council (GPhC) and the Nursing and Midwifery Council (NMC), allowing students to apply for registration to practice as independent prescribers. The course takes four months to complete.

Who is the course for?

The programme is aimed at pharmacists and nurses who wish to develop their careers and become independent prescribers. Pharmacists will require at least two years' post-qualification experience in a patient-facing role, and nurses at least three years relevant post-registration experience (plus one year preceding application in the clinical field in which they intend to prescribe).

What will you learn?

The programme will enable you to take a systematic, evidencebased and reflective approach to independent prescribing practice by developing the competence to practice safely, appropriately and cost effectively as an independent prescriber.

The programme meets the professional standards set out by the GPhC (for pharmacists) or NMC (for nurses) to enable you to apply for registration to practice as independent prescribers. It will also develop you as a critically reflective practitioner and support you in advancing your own learning to sustain continuing professional development in prescribing practice, and work at the forefront of your profession.

How will this help your career prospects?

This postgraduate qualification allows pharmacists and nurses to develop within their own field of practice and to have a direct impact on the care of patients through prescribing independently in practice.

Do you have any questions?

Contact: Layla Fattah, Programme Director on layla.fattah@manchester.ac.uk or call 0161 778 4000

Pharmaceutical Technology and Quality Assurance (PTQA)

This is a three year flexible blended Masters programme which comprises of a series of five-day residential teaching blocks in Manchester, together with supportive and interactive e-learning. It is suitable for students who wish to improve their knowledge, understanding and research expertise in the area of pharmaceutical technology and quality assurance.

Who is the course for?

The programme is aimed at pharmacy, health or biomedical professionals working in the technical services such as quality control, radiopharmacy, aseptic services or production/ manufacturing. Students need to be working in these areas in the NHS or private industry to gain the most from the programme. International students working in suitable settings will be considered.

What will you learn?

During the first year of the programme students attend a number of course units covering a wide range of topics on foundations of PTQA, radiopharmacy or production, formulation sciences and aseptics. In the second year of the programme, students attend learning units from a selection of topics covering, advanced aseptics, medical gases, clinical trials, pharmaceutical risk management and the role of the qualified person and advanced radiopharmacy.

How will this help your career prospects?

Many NHS and private employers will look for future managers and leaders in technical services and quality assurance to have demonstrated and accredited learning experiences. Our PTQA programme is widely recognised and valued by the NHS.

The programme is a unique collaboration between Manchester Pharmacy School and experts from across pharmacy technical services in the UK. There are clear links to the NHS National Committees in Pharmaceutical Production, Quality Assurance and Radiopharmacy.

Do you have any questions?

Contact: Ruth Barnes, Deputy Programme Director on ruth.barnes@manchester.ac.uk or call 0161 778 4000.

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Industrial Pharmacy and Regulatory Affairs

This programme is aimed to support the development of those working in the pharmaceutical industry at all levels, with many units being used for those seeking to extend their portfolio as they proceed for the role of Oualified Person.

The units are delivered entirely through distance learning, with a three day summer school offering the opportunity for you to engage in tutor-led workshops, meet fellow students and network with the team running the programme.

Our tutors are predominantly working actively in the pharmaceutical industry, ensuring that the content which is offered is relevant to your working practice and allowing you to learn from leaders in the field.

Who is the course for?

Any individual who is working in the pharmaceutical industry can access and benefit from this programme. Our current students include not only pharmacists and pharmaceutical scientists, but also biologists, chemists and biological scientists at all grades throughout the industry.

We also offer an entry route for those without a first degree, recognising the experience that many have built up whilst working in the industry.

What will you learn?

Our units cover all aspects of formulation, facilities management, personal management and extend to lean processes and Six Sigma.

Our regulatory affairs unit, which is tutored by an pharmacist previously employed by the Medicines and Healthcare Products Regulatory Authority (MHRA), is widely acknowledged as the leading expert in the area and offers you intensive learning around the regulations set within the EU and the USA.

How will this help your career prospects?

Many students use our programme to support the development and progression to the status of a Qualified Person. Others have used it to gain the knowledge that they need to progress their career within the industry.

Do you have any questions?

Contact: Matthew Shaw, Programme Director on matthew.shaw@manchester.ac.uk or call 0161 778 4000.

Pharmaceutical Microbiology

We have worked with the Pharmaceutical Microbiology Interest Group (PharMIG) to develop this MSc programme for those working in this specialist field. All of our tutors are practising in the field of microbiology and the curriculum is developed and maintained in collaboration with PharMIG. This ensures that the programme, and the content of the individual units, is relevant and applicable to your practice as a microbiologist.

The units are delivered entirely through distance learning, with a three day summer school offering the opportunity for you to engage in tutor-led workshops, meet fellow students and network with the team running the programme.

Who is the course for?

Although the majority of our students on this programme are microbiologists, this programme also has pharmacists, pharmaceutical scientists, biologists and others working through the programme. The introductory module is useful for any individual working in the industry to help them understand the importance of appropriate levels of sterility.

In common with other programmes for those working in the pharmaceutical industry, we offer an entry route for those without a first degree, recognising the experience that is built up through working in this area of practice.

What will you learn?

The units take you through the production of sterile products, assurance of sterility and issues relating to regulation and standards. The Quality Assurance unit in particular is likely to be key for those seeking to gain Qualified Person status.

How will this help your career prospects?

This programme offers you a route to develop your knowledge and skills which you can use to support your career progression within pharmaceutical microbiology. Feedback from students shows that it also helps to reduce your stress levels when inspection is due.

Do you have any questions?

Contact: Matthew Shaw, Programme Director on matthew.shaw@manchester.ac.uk or call 0161 778 4000.

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Clinical Trials

Our Clinical Trials programme was developed in partnership with those leading in the field to offer you a comprehensive learning programme for this specialist area. Our units are lead by a team of tutors working as consultants in this area, bringing you the learning and expertise that is essential to your practice and development in this field.

The units are delivered entirely through distance learning, with a three day summer school offering the opportunity for you to engage in tutor-led workshops, meet fellow students and network with the team running the programme.

Who is the course for?

Any individual who works in clinical trial departments will benefit from this programme. Content is also available specifically to support those seeking to progress to a Qualified Person role and for those working in the clinical trials teams within the NHS.

What will you learn?

Units cover all clinical trial phases and the move from trial to product development. We include a unit that considers regulatory issues specific to clinical trials and a unit which looks specifically at medical writing (this latter module is also useful in the development of the final research thesis).

How will this help your career prospects?

This programme has been used to support the career development and enhancement of those working in clinical trial units. The Qualified Person unit will provide you with the essential learning for those seeking to follow this professional route.

Do you have any questions?

Contact: Matthew Shaw, Programme Director on matthew.shaw@manchester.ac.uk or call 0161 778 4000.

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Business Development and Licensing

We work in partnership with the Pharmaceutical Licensing Group (www.plg-group.com) to offer this exciting programme for business development executives. All of the units are taught by those practising in this field of work, allowing you the opportunity to learn from leaders in the area and to build your networks and professional contacts as you learn.

We offer a two day winter school for those studying these units. At the school we run half day workshop sessions to guide you through the module content, focus on specific challenges you may be facing and allow you to network with your fellow students and tutors.

Who is the course for?

Any individual seeking to extend their networking or business development skills. As with our other pharmaceutical industry programmes, we offer an entry route for those without a first degree, recognising the experience that can be built through working in this area of practice.

What will you learn?

Units cover all aspects of business development work from finance and legal affairs through to negotiation and other essential skills.

How will this help your career prospects?

Considered by some to be a pharmaceutical industry specific MBA, this MSc qualification can offer you a fast track route to progression in this area of practice. Your engagement with a network of those working in the field, together with expert tutors, puts you ahead of the game.

Do you have any questions?

Contact: Matthew Shaw, Programme Director on matthew.shaw@manchester.ac.uk or call 0161 778 4000.

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Modelling and Simulation (Pharmacokinetics and Phamacodynamics)

This programme has been developed with an emphasis on mechanistic approaches to assessing and predicting pharmacokinetics and pharmacodynamics (PKPD). It is a part-time course that can be studied over two years. The distance learning nature means that students can fit their study around their work commitments, as the only time they are required on site is during the three week residential introductory course and for the examination.

Postgraduate Certificate and Postgraduate Diploma can also be obtained following successful completion of a certain number of credits. It is also possible to participate in elements of the residential course as short courses. The courses are tutored by university staff, subject experts from academic institutions and pharmaceutical companies from all over the world.

Who's the course for?

It is mainly designed for scientists working within the pharmaceutical industry who wish to qualify as modellers using practical examples and obtain a university degree, either as part of enhancing their abilities within their current role in ongoing projects or with the idea of moving to new posts.

What you will learn?

The programme aims to provide background information on quantitative assessment of drug absorption, distribution and elimination (ADME) in the human body.

You will learn about the mathematical framework that is capable of integrating in vitro information with knowledge of the human body to predict pharmacokinetics. It provides you with an introduction and opportunity to use different platforms related to data analysis in PKPD modelling and a chance for students to synthesise knowledge by gathering unrelated pieces of published material as applied to PKPD analysis and to carry out cutting edge research in the field.

How will this help your career prospects?

The part-time course is mainly designed for scientists working within the pharmaceutical industry who wish to qualify as modellers with hands-on experience and obtain a university degree, either as part of enhancing their abilities within their current role in ongoing projects or with the idea of moving to new posts.

Do you have any questions?

Contact: Kayode Ogungbenro, Deputy Programme Director on kayode.ogungbenro@manchester.ac.uk or call 0161 306 0604.

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Should I study for a Certificate, Diploma or Masters Programme?

You can study at your own pace. You could take just a few modules as continuous professional development (CPD). It's just a small commitment and once you have gained confidence and enjoyed your studies, it's possible to progress. A Postgraduate Certificate is awarded for the successful completion of an approved set of four modules within two years. A Postgraduate Diploma is awarded after completing eight modules, within four years and a Master of Science Degree is awarded after eight modules are successfully completed plus, a dissertation on a workplace research project. It is therefore possible to do this step by step and gain qualifications along the way.

Create your own MSc

With four programmes to meet the learning and development needs of those working in the pharmaceutical industry, we are pleased to offer you the opportunity to select the units from across all four programmes (that's 40 potential units) to meet your own specific learning needs. Essentially you can craft your MSc to support your own learning, development or career aspiration needs.

It is also possible to blend our Independent Prescribing Programme into our Clinical Pharmacy programmes.

Most programmes have defined start dates but we consider applications throughout the year. Some programmes do have flexible start dates with multiple start dates throughout the year.

Talk to us about how you can plan and build your own qualification.

'The flexibility of the courses really helped me plan my study and keep working at the same time. It was tough at times as the course is demanding but it was so rewarding when I graduated with my MSc'

'The lecturers and course leaders are so helpful. It's great to meet them at the study days but also know they will respond to emails if I need help when I'm using the e-learning'

'All my hard work paid off, my new qualification has helped me gain a promotion in the pharmaceutical industry'

'The range of teachers, lecturers and professors you meet on the course is great. It means you get the benefit of current practice which is supported by academics'





Contact us

There are several ways you can use to talk to us about your study aspirations and plans.

You can directly contact the individual Programme Directors. You'll find their emails or phone numbers on each of the programme pages. They'll be delighted to discuss the suitability of their programmes with you.

Call our Postgraduate Taught Programmes Office on **0161 306 0604** or email the Admissions Team on **pharmgrad@manchester.ac.uk**.

Register your interest at **www.pharmacy.manchester.ac.uk/postgraduate/taught** and we'll get back in touch with you.

Manchester Pharmacy School

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DW1062.09.14 The University of Manchester, Oxford Road, Manchester M13 9PL Royal Charter Number RC000797