Faculty of Health and Medicine

The Faculty of Health and Medicine comprises Biomedical and Life Sciences, the Centre for Education, Training and Development (CETAD), Health Research, and Lancaster Medical School.

We provide a unique blend of biomedical, medical, and social science expertise, which underpins a portfolio of high quality, innovative and flexible postgraduate programmes. Our programmes provide opportunities for life scientists, social scientists, medically qualified graduates and professionals working in health and medicine to undertake postgraduate study at all stages of their career development.

During the last three years, the Faculty has attracted over £9m in research funding and benefitted from continued investment, including recently refurbished laboratories and equipment in Biomedical and Life Sciences and the Clinical Anatomy Learning Centre (Lancaster Medical School). The Faculty moved into its new location in the refurbished Furness Building in autumn 2012.

Research within the Faculty addresses fundamental issues in health and medicine from curiosity-led investigations generating new knowledge and tools through to developing applied interventions of practical use in everyday life. Major research topics include: end of life care, disability, health inequalities, health economics, mental health, ageing, neurodegenerative diseases, cancer biology, microbiology, parasitology, biostatistics and epidemiology.

Members of the Faculty work collaboratively with colleagues carrying out related research across the University and also have strong external links with NHS partners, health-related industries, government, and the voluntary sector, as well as many multidisciplinary research collaborations worldwide.

The Faculty is undergoing rapid growth and continues to expand its research portfolio. Potential applicants for postgraduate study are therefore strongly advised to consult our website for current information: www.lancaster.ac.uk/fhm

Key fact

In the most recent Research Assessment Exercise (2008), the research of our biomedical scientists was ranked joint first and our health researchers, 13th in the UK.

Dean of Faculty
Professor Neil Johnson

Associate Dean for Postgraduate Studies
Professor Christine Milligan

Associate Dean for Research
Professor Roger Pickup

Number of postgraduate students
336 Research
272 Taught
Divisions

100 Biomedical and Life Sciences
105 CETAD
111 Health Research
118 Lancaster Medical School

For more information please go to www.lancaster.ac.uk
Biomedical and Life Sciences

Research carried out by Biomedical and Life Sciences is of a world class standard and was ranked in the top five percent of its discipline in the 2008 Research Assessment Exercise (RAE).

Postgraduate students benefit from links with many NHS trusts and the division receives financial support from a broad range of grant-awarding bodies including UK Research Councils, the European Commission, charities and industry.

Research within Biomedical and Life Sciences focuses on the study of molecular and cellular aspects of human health and disease, using a range of biochemical and cellular approaches to complement studies in model organisms.

Key areas of research include:

**Ageing and Neurodegenerative Disease**
Progressive degeneration of the nervous system features in many human diseases and can be characterised by impaired movement or cognition. Our research into the underlying processes of healthy ageing is complemented by studying those that lead to brain dysfunction and degeneration in conditions such as Alzheimer’s disease, Parkinson’s disease and hydrocephalus. We also research biochemical and structural techniques to understand cellular function at its fundamental level, particularly: corneal stem cell therapies, proteoglycan structure and function, the developmental genetics of Drosophila, and ex vivo human gut tissue modelling.

**Cancer and DNA Damage**
Our research investigates aspects of the molecular and cellular biology of cancer including: cellular effects of exposure to carcinogens and ultraviolet light, DNA repair mechanisms, cell cycle control, and the molecular events behind leukaemia and colorectal cancer.

**Parasitology and Microbiology**
Our research seeks to develop a better understanding of the cell biology of protozoan parasites and yeast, applicable not only to medical parasitology, but also exploiting micro-organisms as models for understanding human cellular function. We also undertake research into viruses as well as prokaryotic and other eukaryotic micro-organisms.

### Research degrees

**MPhil/PhD**

**Director of Studies**
Dr Paul McKean.

**Entry requirements**
An upper second class honours degree, or its equivalent, in an appropriate subject.

**IELTS**
At least 6.5 overall (minimum element scores apply).

**Assessment**
Original research and thesis.

**Funding**
Research Councils, Lancaster University and charities.

**Further information**
[www.lancaster.ac.uk/fhm/bls](http://www.lancaster.ac.uk/fhm/bls)

Applications are welcomed for PhD and MPhil degrees in any of our main areas of research.

Postgraduate research students are directly involved in the mainstream research of the Faculty. In addition to receiving specialised training relevant to your research topic and methodology you’ll be encouraged to take part in the graduate training programme. This programme offers a range of more generic courses such as teaching skills, statistical methods, computing and languages. You will also be encouraged to attend and present lectures and posters at conferences overseas and within the UK.
MSc (Research) in Biomedical Science

**Director of Studies**
Dr Paul McKean.

**Duration**
12 months full-time, 24 months part-time.

**Entry requirements**
An upper second class honours degree, or its equivalent, in Biology, Biochemistry, Molecular Biology or a related subject. Undergraduate MBChB students intercalating between 4th and 5th years of study require a top quartile outcome in MBChB finals.

**IELTS**
At least 6.5 overall (with no less than 6.0 in each element) or equivalent.

**Assessment**
Original research and thesis.

**Further information**
www.lancaster.ac.uk/fhm/bls

This degree enables you to gain in-depth knowledge of a particular area of biomedical research while becoming familiar with general and specific research methods and laboratory practice.

The degree format includes nine months of full-time laboratory work as part of an established research group, direct learning of research methods through the graduate training programme, and a three month writing up period, in which you will produce a dissertation. Your dissertation (which is also examined by a viva voce) is the means by which the degree is assessed.

MD Biomedicine

**Director of Studies**
Dr Paul McKean.

**Duration**
24 months full-time.

**Entry requirements**
Applicants must (i) hold a medical or dental qualification recognised by the UK General Medical/Dental Council, (ii) must have held this qualification for at least three years by the date of submission, and (iii) must be employed during their period of registration in appropriate clinical or scientific work in hospitals or institutions (associated with the University) within the local NHS region.

**IELTS**
At least 6.5 overall (minimum element scores apply).

**Assessment**
Original research and thesis, viva voce.

**Further information**
www.lancs.ac.uk/fhm/study/

The Doctor of Medicine degree scheme provides opportunities for clinically qualified candidates to undertake a two year Doctoral level research project at Lancaster.

Our links with the Lancaster Medical School and many NHS trusts provide a wide range of opportunities for medically related research. You will be supervised by a clinical supervisor and a member of academic staff in Biomedical and Life Sciences or the Medical School.

Research degrees
- MPhil/PhD
- MSc (Research) in Biomedical Science
- MD Biomedicine

Taught programmes
- MSc in Biomedicine

Number of postgraduate students
50

Head of Division
Dr Jane Owen-Lynch

Postgraduate enquiries
Postgraduate Director:
Dr Paul McKean
Tel: +44 (0)1524 593936
Email: fhm-pg-admissions@lancaster.ac.uk
www.lancaster.ac.uk/fhm/bls
Our research interests

Ageing and Neurodegenerative Disease: our research aims to understand the probable link between protein accumulation and nerve cell damage. We are also working to develop improved methods for the early diagnosis and treatment of these diseases, including the development of biomarkers and protein aggregation inhibitors.

Specific research in Ageing and Neurodegenerative Disease includes:

- Unusual protein deposits that accumulate in the brain in Alzheimer’s disease, Parkinson’s disease, and other neurodegenerative conditions
- The connection between type 2 diabetes and Alzheimer’s and Parkinson’s disease
- The role of copper and the proteolytic processing of certain key proteins involved in the pathogenesis of neurodegenerative disease
- Disorders of brain development, for example hydrocephalus, and the role of cerebrospinal fluid in normal and abnormal development of the brain cortex
- The basic mechanisms that cause ageing and the genetic and environmental factors determining lifespan
- Developing biological markers to monitor healthy ageing and age related diseases
- The role of insulin/IGF-like signalling in central nervous system ageing, with particular emphasis on age related cognitive health and lifespan
- The manipulation of candidate genes to extend healthy lifespan
- Genetic and environmental risk factors for schizophrenia and other psychiatric disorders.

Other projects include:

- The eye and improving treatment for corneal diseases and projects involving the ex vivo expansion and transplantation of corneal stem cells for clinical use
- The structure and function of glycoproteins and proteoglycans in order to acquire a greater understanding of proteoglycan involvement in a variety of disease processes including the development of osteoarthritis, neurodegenerative disease and vision impairment
- The dynamics of ageing in the cardiovascular system
- Non-invasive monitoring of blood flow and a detailed understanding of some of the components that contribute to this dynamic process
- The physiology of the gastrointestinal epithelium, including experimental models of how the gut functions in health and disease and how drugs might impact on these functions.

An expanding Drosophila group studies the developmental genetics of Drosophila melanogaster, with a particular interest in peptide hormone and neuropeptide metabolism
- The role of angiotensin-converting enzyme homologues in spermatogenesis and in sleep regulation.
Cancer and DNA Damage: a particular focus of this research is carcinogenesis induced by UV, ionising radiation and chemicals, and the molecular mechanisms of leukaemogenesis.

Specific staff research projects include:
The fundamental mechanisms of homologous recombination and base excision repair employed by human cells to repair DNA damage • How DNA is replicated in mammalian cells – since failure to regulate this process leads to mutation and chromosome abnormalities associated with cancer • The identification of differences between mechanisms regulating DNA replication in cancerous cells and normal tissues, leading to new therapeutic targets • Cell cycle control and protein function in model organisms such as yeast and Xenopus cell free egg extract.

Other projects include:
Cellular and molecular mechanisms of the cannabinoid system in gastrointestinal epithelium and the translational aspects of realising the therapeutic potential of cannabinoids in diseases such as Crohn’s disease, ulcerative colitis and colorectal cancer • Understanding the mechanisms of intestinal epithelial cell (IEC) renewal and repair, focusing on the role of suppressor of cytokine signalling 3 (SOCS-3) in controlling IEC homeostasis • How bacterial signals may be linked to the dysregulation of IEC repair seen in inflammatory bowel disease and cancer • Models of IEC barrier regulation in Drosophila in order to study age related changes in IEC function in vivo • The role of A disintegrin and metalloproteinases (ADAMs) proteases in relation to cell proliferation and differentiation.

Parasitology and Microbiology: we host an expanding molecular parasitology group within Biomedical and Life Sciences. Particular staff interests include:
The haemoflagellate parasites responsible for the neglected tropical disease leishmaniasis, their insect vectors and the development of tools to control this spectrum of diseases • The interaction between Phlebotomine sand fly vectors and Leishmania parasites • The study of the interaction between wolbachia and malaria vector mosquitoes • The African trypanosome T. brucei, which is a pathogen of major veterinary and medical importance in Sub-Saharan Africa – and cell division processes in this flagellated protozoan parasite with the aim of identifying new chemotherapeutic approaches for controlling sleeping sickness.

Other projects include:
The interface between biology and chemistry and how to translate advances in basic biological knowledge into the development of novel drugs against these major pathogens • Trypanosomatid parasites and how these organisms modulate metabolic activities in order to complete their complex life cycle within the nutritionally different environments encountered in the mammalian host and the insect vector • The role of non-tubercular mycobacteria in human disease and environmental routes through which humans are exposed to these bacterial pathogens – and the role of Mycobacterium avium subspecies paratuberculosis in Crohn’s disease, and possibly in irritable bowel syndrome • Interactions between bacteria and protozoa (particularly amoebae) • The roles of ion transport proteins in fungal cell biology in order to further understand the contribution of plasma membrane ion channel proteins to cell growth and development • The bioinformatics analysis of viruses.
Taught programmes

MSc in Biomedicine

Director of Studies
Dr Nigel Fullwood.

Duration
12 months full-time.

Entry requirements
At least an upper second class honours degree, or its equivalent, in an appropriate subject.

IELTS
At least 6.5 overall (minimum element scores apply).

Assessment
Combination of coursework, presentations, examinations and dissertation.

Further information
www.lancaster.ac.uk/fhm/bls

The MSc in Biomedicine provides you with the opportunity to acquire a greater understanding of practical and theoretical biomedical science at a leading university in this field. The course provides the knowledge and skills required for subsequent progression to PhD study, a career in biomedical/pharmaceutical research (industry or university based) or hospital-based employment. Our scheme provides focus on, and training within, several ‘hot’ topics in biomedicine, while still retaining elements of flexibility and choice.

Compulsory modules
- Research Techniques
- Supervised Research Project (six months)

Optional modules
- Emerging Therapeutics in Immunology
- Diseases of the Brain
- Drug Discovery and Development
- Immunology
- Microbes and Disease
- Molecular Basis of Cancer
- Biomedicine in Context

In addition you can choose from a variety of other biomedical modules offered within Biology, Health, Physics and Maths.

Key fact

Since 2001, members of the Division have published over 600 peer-reviewed papers and have won competitive research grants from agencies such as UK research councils, EU, The Wellcome Trust and other medical charities, the pharmaceutical industry and various other organisations.
Centre for Education, Training and Development (CETAD)

CETAD is a specialist work based learning centre within the Faculty of Health and Medicine. Since 1990 we have been providing high quality work based learning programmes for public, private and voluntary sectors.

We deliver relevant knowledge and skills that can be applied directly to the workplace and so provide a return on investment for both individuals and organisations. All of our courses are designed and delivered to suit our students’ needs and the needs of their organisation.

The focus is on application of learning at work so our tutors are also practitioners who have work based experience and can relate ‘theory to practice’. Our core values are quality and customer service. We understand the needs of mature experienced learners, who may not have studied for a while, so we provide high levels of individual support and at every stage our ‘students’ are treated as valued customers.

We offer courses in a range of areas including: Professional Development, Medical Education, Medical Leadership, Innovation and Improvement Science, Leadership and Management Development, and Organisational Change. We can award credit for prior learning which provides exemption from some of the modules.

We also offer Negotiated Work Based Learning. This is an exciting and innovative work based route to postgraduate qualifications for experienced professionals. It allows you to build your own programme based on your specific needs and the needs of your organisation. You negotiate your own programme with us and your employer based around projects at work. It is highly customised, relevant and flexible and enables you to: gain academic credits for professional experience, learning and achievement; develop, by building your programme around specific objectives and projects at work; negotiate timescales, target qualifications (Postgraduate Certificate/Diploma, MA/MSc) and ultimately apply postgraduate level learning directly to real work agendas.

**Taught programmes**
- PgCert/PgDip/MSc in Innovation and Improvement Science
- PgCert/PgDip/MSc in Medical Education
- PgCert/PgDip/MSc in Medical Leadership
- PgCert in Applied Bioscience and Business Management
- PgCert in Business Management with Energy and Fuels from Waste
- PgCert in Organisational Change
- PgCert in Organisational Change (Health Care)
- PgCert in Leadership and Management
- PgCert in Leadership and Management (Health Care)
- PgCert in Professional Development
- PgCert in Professional Practice via Negotiated Work Based Learning
- PgDip in Professional Practice via Negotiated Work Based Learning
- MA/MSc in Professional Practice via Negotiated Work Based Learning

**Number of postgraduate students**
230

**Head of Division**
Jane O’Brien

**Postgraduate enquiries**
Tel: 44 (0)1524 593318
Email: cetad@lancaster.ac.uk

For more information please go to www.lancaster.ac.uk
Taught programmes

PgCert/PgDip/MSc in Innovation and Improvement Science

Director of Studies
Jan Metcalfe.

Entry requirements
Applicants working in health care context. Usually three years work experience (clinical or non-clinical) which allows for the scope to undertake innovation and improvement projects. All applications require employer/stakeholder support. For the PgDip/MA a PgCert in Innovation and Improvement Science is required.

IELTS
At least 6.5 overall (minimum element scores apply).

Assessment
Coursework, including learning contracts, project proposals, reports, reflective commentary, and oral presentation.

Further information
www.lancaster.ac.uk/fhm/cetad

This programme enables you to explore how to make better use of research and innovation to improve ways in which health care is organised and delivered for patient benefit. Improvement Science has a trans-disciplinary curriculum, drawing on knowledge from a wide range of disciplines and sectors, using methods derived from the social sciences and the ‘hard’ sciences in pragmatic ways with a foundation based on concepts of managing change and service improvement.

The programme is work-based, requiring you to identify and implement service improvement projects in your own work context. There are options for Postgraduate Certificate, Diploma and MSc, with progression routes between them.

The overall programme is designed to focus on key concepts:

- Improvement science theories and concepts
- Evidence-based approaches and research methods
- Quality improvement and measurement

The Postgraduate Certificate builds on a core module exploring key theories, models, concepts and principles of improvement science. You can choose additional optional modules on areas such as managing change and project management and then undertake a small scale project (which can then be extended at Diploma and MSc Level).

Progression from a Postgraduate Certificate to a Postgraduate Diploma or MSc will enable you to develop further in specialist aspects of improvement science pertinent to your own role and work context through a range of optional modules and the completion of a work-based project.

The Postgraduate Diploma and MSc include:

- Work-based inquiry methods for researching service improvement projects
- Work-based service improvement projects, varying in size and scope depending on the target award

The course directly impacted on my work and as I progressed I could see a difference on a very practical level.

Debbie Atkinson, Centre Manager
PgCert/PgDip/MSc in Medical Education

Director of Studies
Jan Metcalfe.

Entry requirements
Applicants working in roles involved in the education and training of medical and clinical staff. For the PgDip/MA a PgCert in Medical Education or equivalent is required.

IELTS
At least 6.5 overall (minimum element scores apply).

Assessment
Coursework, including learning contracts, project proposals, reports, reflective commentary, and oral presentation.

Further information
www.lancaster.ac.uk/fhm/cetad

This programme has been developed jointly by Lancaster Medical School and the Centre for Education, Training and Development (CETAD) – both are divisions within the Faculty of Health and Medicine. It is designed to meet the GMC’s Strategy that all those involved in the development and education of doctors should be competent in the principles of medical education. Whether you directly teach undergraduate student doctors or supervise specialist trainees, this programme will help you to:

- Develop and consolidate your knowledge and understanding of core principles of medical education
- Enhance your skills as a medical educator
- Evidence your competence in line with the Academy of Medical Educator’s learning domains

Progression from a Postgraduate Certificate to a Postgraduate Diploma or MSc will enable you to develop further in specialist aspects of medical education pertinent to your own role and work context through a range of optional modules and the completion of work-based applied medical education projects.

PgCert/PgDip/MSc in Medical Leadership

Director of Studies
Jan Metcalfe.

Duration
12 months part-time.

Entry requirements
Qualified doctors holding an MBChB or equivalent. For the PgDip/MA a PgCert in Medical Leadership or equivalent is required.

IELTS
At least 6.5 overall (minimum element scores apply).

Assessment
Coursework, including learning contracts, project proposals, reports, reflective commentary, and oral presentation.

Further information
www.lancaster.ac.uk/fhm/cetad

This programme is designed to develop your knowledge, understanding and skills in line with the Medical Leadership Competency Framework. The course is interactive, participatory and work based requiring just six days attendance alongside on-line learning activities. The programme is structured to encourage personal leadership development and so can benefit doctors at every stage of their career.

The programme is for you if you are interested in improving patient experience and service delivery, demonstrating caring, compassionate and authentic leadership and developing your own leadership capacity in order to achieve and evidence medical and organisational impact.

Participants accommodate the programme alongside their other professional responsibilities. Individual modules are separately recognised and enrolled participants will be able to complete even if they relocate away from the area. Each module requires two separate days’ attendance, as well as associated reading and assignment work.

Modules
- Personal Learning and Development
- Understanding Leadership and Management
- Collaborative and Team Working
- Strategic Analysis – What’s Driving Change in your Work Context?
- The Role of Doctors in Health Service Improvement

Plus one optional module.

Students may also make a claim (APL) to gain credits to exempt them from some modules by undertaking the module Recognition and Accreditation of Prior Learning (RAPL).

Progression from a Postgraduate Certificate to a Postgraduate Diploma or an MSc provides a pathway provides a pathway to further enhance your knowledge and understanding about medical leadership. It will also develop management skills in line with GMS’s “Leadership and Management for all Doctors” (2012), through a range of optional modules and work-based applied medical leadership projects.
**Taught programmes (continued)**

**PgCert in Applied Bioscience and Business Management**

**Director of Studies**

Jan Metcalfe.

**Duration**

12 months part-time.

**Entry requirements**

Applicants must be working in the Bioscience sector.

**IELTS**

At least 6.5 overall (minimum element scores apply).

**Assessment**

Coursework, including learning contracts, project proposals, reports, reflective commentary, and oral presentation.

**Further information**

[www.lancaster.ac.uk/fhm/cetad](http://www.lancaster.ac.uk/fhm/cetad)

This programme offers professional development to those in the Biomedical sector. Newly qualified graduates in their first year of employment, especially those from a scientific background, may benefit from the more generic modules such as Management and Leadership. In addition, some of the modules may act as 'conversion courses' eg a Chemistry graduate may undertake a module in Molecular Biology.

This work based scheme is also suitable for experienced mid-career professionals, including those without a first degree.

Modules are offered in three groups: Bioscience, Business and Management Skills, and Generic Skills. Students must achieve ten credits from Group A and ten credits from Group B. The remaining 40 credits can be accumulated by taking modules from any of the Groups – A, B or C to a total credit value of 60.

The modules chosen should meet the individual's needs as well as the needs as well as the needs of their employer.

**Bioscience (Group A)**

- Applied Mathematics and Statistics for the Biomedical Sector
- Cell Biology Research Skills
- Diseases of the Brain
- Drug Discovery and Development
- Ethics Research Skills
- Immunology
- Laboratory Practice: Essential Practical Skills and Techniques
- Models of Disease
- Molecular Basis of Cancer
- Molecular Biology Research Skills
- The Biomedical Sector: Regulatory and Ethical Frameworks

**Business and Management (Group B)**

- Analysing Drivers for Change
- Entrepreneurial Skills
- Leading and Managing People
- Leading Others Through Change
- Leading Projects
- The Biomedical Sector in Context and Emerging Trends
- Leadership and Management
- The Commercial Business Environment – Strategic Perspectives
- Work Based Project (Action Research)

**Core Skills (Group C)**

- Communication and Presentation Skills
- Creative Thinking and Problem Solving
- Personal Effectiveness and Team Working

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**PgCert in Business Management with Energy and Fuels from Waste**

**Director of Studies**

Jan Metcalfe.

**Duration**

12 months.

**Entry requirements**

You will need work experience in the sector. We do not recognise prior learning and experience; there are no formal entry requirements.

**IELTS**

At least 6.5 overall (minimum element scores apply).

**Assessment**

Assessments are based on applying your learning to your work based activities.

**Further information**

[http://www.lancs.ac.uk/fhm/cetad](http://www.lancs.ac.uk/fhm/cetad)

This programme will allow you to gain a thorough understanding of the waste to energy sector and to become familiar with all relevant UK and EU regulations underpinning waste management, renewable energy generation and biofuels. You will also acquire a comprehensive knowledge of available technologies for fuel production and energy generation from waste and will be equipped to design and implement environmental management systems and environmental monitoring programmes for waste to energy schemes.
You will combine this knowledge and understanding with that of business and people management and will be able to consider how best to develop and deploy staff in order to meet the changing needs of your business alongside developing the teamwork and communication skills necessary to enhance your business collaborations. You will also have the opportunity to select modules from a range of options related to business, management, leadership and energy and therefore tailor your programme to suit your needs.

PgCert in Organisational Change

PgCert in Organisational Change (Health Care)

Director of Studies
Jan Metcalfe.

Duration
Part-time with up to 60 months to complete.

Entry requirements
Applicants are likely to be in professional or management roles (for the Health Care variant applicants should be working in a health care context) with responsibilities for influencing policy and practice. Usually at least three years work experience.

IELTS
At least 6.5 overall (minimum element scores apply).

Assessment
Coursework, including learning contracts, project proposals, reports, reflective commentary, and oral presentation.

Further information
www.lancaster.ac.uk/fhm/cetad

The duration of this part-time course is flexible as it is offered on a modular basis. The programme is suitable for mid-career professionals responsible for influencing policy and/or practice within their own organisation. The aim is to enhance your understanding of change theories and to increase your ability to apply this knowledge to real work issues.

Progression routes to Postgraduate Diploma and Masters Degree are available via Negotiated Work Based Learning.

The course includes six taught modules:
- Strategic Analysis: What’s Driving Change in Your work Context?
- Models for Planning and Managing Change
- Leading Others through Change
- Evaluating Change
- Personal Learning and Development

Plus one optional module.

Students may also make a claim (APL) to gain credits to exempt them from some modules by undertaking the module Recognition and Accreditation of Prior Learning (RAPL).

PgCert in Leadership and Management

PgCert in Leadership and Management (Health Care)

Director of Studies
Jan Metcalfe.

Duration
Part time with up to 60 months to complete.

Entry requirements
Applicants should be in roles with leadership and management responsibility (for the Health Care variant applicants should be working in a health care context) with usually at least three years work experience.

IELTS
At least 6.5 overall (minimum element scores apply).

Assessment
Coursework, including learning contracts, project proposals, reports, reflective commentary, and oral presentation.

Further information
www.lancaster.ac.uk/fhm/cetad

The duration of this part-time course is flexible as it is offered on a modular basis.

By enhancing your understanding of leadership and management theories and increasing your ability to apply this knowledge to real work issues, the course is suitable for those in management roles with sufficient autonomy and/or senior management support and access to resources to undertake projects impacting on your own and others’ professional practice.

Progression routes to Postgraduate Diploma and Masters Degree are available via Negotiated Work Based Learning.

The course includes six taught modules:
- Understanding Leadership and Management
- Leading and Managing People
- Collaborative and Team Working
- Strategic Analysis: What’s Driving Change in Your work Context?
- Personal Learning and Development

Plus one optional module.

Students may also make a claim (APL) to gain credits to exempt them from some modules by undertaking the module Recognition and Accreditation of Prior Learning (RAPL).
Taught programmes (continued)

PgCert in Professional Development
Director of Studies
Jan Metcalfe.

Duration
Part-time with up to 60 months to complete.

Entry requirements
Demonstration that the modules chosen meet the individual's needs and the needs of their organisation.

IELTS
At least 6.5 overall (minimum element scores apply).

Assessment
Assessments are based on applying your learning to work based activities so they are highly relevant and useful, and there are no exams.

Further information
www.lancaster.ac.uk/fhm/cetad

This programme enables you to choose modules from a choice of options in line with your professional development needs. Modules are in subject areas such as leadership and management, developing and supporting others, and self-development. Modules are ten credits so you will choose six modules in order to achieve the qualification. You can start by undertaking one module and return later to build it into a qualification, or you can enrol for the qualification at the outset. The 'step-on, step-off' nature of the qualification means that you can pace your study to suit your own work/life balance.

Each module enables you to learn key concepts, ideas, tools and techniques to apply at work. The modules minimise time off work and provide a mix of face-to-face sessions and interactive web-based learning. Taught by supportive University staff with work based experience, you will also benefit by networking and learning from other professionals. Assessments are work based so are highly relevant and useful.

Progression routes to Postgraduate Diploma and Masters Degree are available via Negotiated Work Based Learning.

PgCert in Professional Practice via Negotiated Work Based Learning

PgDip in Professional Practice via Negotiated Work Based Learning

MA/MSc in Professional Practice via Negotiated Work Based Learning

Director of Studies
Jan Metcalfe.

Duration
Negotiable.

Entry requirements
Applicants should usually have at least three years experience in a role which allows for the scope to undertake postgraduate work based projects. All applicants require employer/stakeholder support.

IELTS
At least 6.5 overall (minimum element scores apply).

Assessment
Coursework, including learning contracts, project proposals, reports, reflective commentary, and oral presentation.

Further information
www.lancaster.ac.uk/fhm/cetad

This programme comprises four components:

Programme negotiation, recognition and accreditation of prior learning
- Reflect and review your prior learning
- Further develop your work based learning and study skills
- Plan your future development. Agree a postgraduate programme taking account of your personal and professional needs and those of your organisation. This includes specifying any topic modules that you wish to undertake and outlining your work based project
- If you wish to claim credits for prior learning and experience you can prepare an accreditation of prior learning (APL) claim to be awarded towards a postgraduate qualification

Topic modules
Optional topic modules are available in a range of subject areas including:
- Leadership and Management
- Project Management
- Organisational Change
- Advanced Skills (communication, creative thinking and problem solving)

Scoping your Project
Equipping you with the knowledge and skills needed to design and carry out your work based investigative project.

Work Based Project(s)
Project modules vary in size depending on the target award, i.e. Postgraduate Certificate, Diploma, or Masters Degree. You produce a work based project and a project report (includes a statement of what the project is about, a rationale and contextualising information, details about the methods used and an analysis of the findings).
Health Research

The Division of Health Research (DHR) conducts, represents and promotes health-related research at Lancaster University and works closely with external individuals and organisations involved in health research, development and implementation.

The Division exists to conduct high quality health-related research at Lancaster. In the most recent Research Assessment Exercise (2008), 95% of the Division’s research was rated as being of international standing. It brings together over 80 academic and research staff whose research covers one or more of the following broad areas: ageing, palliative and end of life care, mental health and organisational well-being, public health, health equity, disability studies and health economics.

Our staff are committed to undertaking a wide range of scholarly, research and education activities that generate new knowledge, services and products in order to meet society’s current and future needs. Our expertise and contribution lies specifically around improved health, well-being and safety for individuals, enhancing the skills of a wide range of people, both lay and professional, in providing services, and their wider environments. This leads more broadly to enhanced human capital either for individuals and/or organisations and services in the public and private sector.

Close links exist with other university departments addressing areas of health research, including: Sociology, Lancaster Environment Centre, Psychology, Linguistics, Management Science, Organisation, Work and Technology and the Centre for Gender and Women’s Studies.

Research degrees
- MPhil/PhD in Health Research

PhD Programmes (Blended Learning)
- PhD in Mental Health
- PhD in Organisational Health and Well-Being
- PhD in Palliative Care
- PhD in Public Health

Professional doctorates
- Doctorate in Clinical Psychology (DClinPsy)

Taught degrees
- PGDip in Cognitive Behaviour Therapy in Primary Care

Number of postgraduate students
304

Head of Division
Bruce Hollingsworth

Postgraduate enquiries
Director of Postgraduate Research Studies: Professor Carol Thomas
Tel: +44(0)1524 593936
Email: fhm-pg-admissions@lancaster.ac.uk
www.lancaster.ac.uk/fhm/dhr

DClinPsy enquiries
Email: clinicalpsychology@lancs.ac.uk

For more information please go to www.lancaster.ac.uk
Research degrees

MPhil/PhD in Health Research

Director of Postgraduate Research Studies
Professor Carol Thomas.

Entry requirements
Applicants should hold the minimum of an upper second class honours degree, or its equivalent, in an appropriate subject.

IELTS
At least 6.5 overall (minimum element scores apply).

Assessment
Research training modules (if appropriate). Original research and thesis.

Funding
Research Councils (see NWDTC, page 24), Lancaster University, and Charities.

Further information
www.lancaster.ac.uk/fhm/study/doctoral-study/phd/pg-research

Applications are welcomed for PhD and MPhil degrees, full-time or part-time, in any of our main research areas.

As a research student, you will be directly involved in the mainstream research of the Faculty. You will receive specialised research training relevant to your research topic and methodology. You will be encouraged to take part in a range of more generic courses such as teaching skills, statistical methods and computing.

You will also be encouraged to attend and present lectures and posters at conferences both within the UK and overseas; recent students have attended conferences in the USA and Australia as well as mainland Europe.

PhD Programmes

blended learning; coursework and thesis

Programme structure
The following PhD programmes comprise two years of taught modules, delivered predominantly by distance e-learning, alongside one residential visit week per year at Lancaster University.

Years three to five are spent undertaking a research project and thesis (35,000 words) at your own location, with supervision from Lancaster.

PhD in Mental Health

Director of Studies
Dr Alyson Dodd (Years 1 and 2). Professor Katherine Froggatt (Years 3+).

Duration
48-84 months part-time.

Entry requirements
An upper second class honours degree or a good masters degree, in an appropriate subject, and relevant work experience.

IELTS
At least 6.5 overall (minimum element scores apply).

Assessment
Combination of taught modules, original research and thesis.

Further information
www.lancaster.ac.uk/fhm/study/doctoral-study/phd/mental_health

The PhD in Mental Health provides opportunities for professionals working within the field of mental health, in the UK and internationally, to gain a deeper and more critical insight into their practice, whether they are based within healthcare settings, local government, education, research or management.
This programme meets the needs of mental health professionals wishing to enhance their research skills, develop their understanding of theory, policy and practice, and make an original contribution to knowledge development within their field, while at the same time fulfilling their existing responsibilities.

The specialist taught modules include both the theory and practice of mental health (psychological models of psychological disorders, evidence-based interventions and current priorities for mental health).

**PhD in Organisational Health and Well-Being**

**Director of Studies**
Dr Alyson Dodd (Years 1 and 2). Professor Katherine Froggatt (Years 3+).

**Duration**
48-84 months part-time.

**Entry requirements**
An upper second class honours degree or a good masters degree, in an appropriate subject, and relevant work experience.

**IELTS**
At least 6.5 overall (with no less than 6.0 in each element) or equivalent.

**Assessment**
Combination of taught models, original research and thesis.

**Further information**
[www.lancaster.ac.uk/fhm/study/doctoral_study/phd/organizational_health_and_wellbeing/](www.lancaster.ac.uk/fhm/study/doctoral_study/phd/organizational_health_and_wellbeing/)

The PhD in Organisational Health and Well-Being is suited to individuals currently working, or aspiring to work, in the area of organisational health and well-being, health and safety and occupational health. The programme develops your knowledge and understanding of the psychological, social and organisational aspects of the dynamic relationship between work and health.

It is aimed at individuals working across public, private and voluntary sectors interested in the promotion and creation of healthy work places including: human resource managers, occupational health practitioners, health care workers, health and safety representatives, applied/organisational psychologists.

The specialist taught modules address the interaction between the work environment and health, organisational change and development.

**PhD in Palliative Care**

**Director of Studies**
Dr Alyson Dodd (Years 1 and 2). Professor Katherine Froggatt (Years 3+).

**Duration**
48-84 months part-time.

**Entry requirements**
An upper second class honours degree or a good masters degree, in an appropriate subject, and relevant work experience.

**IELTS**
At least 6.5 overall (minimum element scores apply).

**Assessment**
Combination of taught modules, original research and thesis.

**Further information**
[www.lancaster.ac.uk/shm/study/doctoral_study/phd/palliative_care](www.lancaster.ac.uk/shm/study/doctoral_study/phd/palliative_care)

The PhD in Palliative Care provides opportunities for people working in palliative, hospice and end of life care, in the UK and internationally, to undertake advanced study.

This programme meets the needs of palliative care professionals wishing to enhance their research skills, develop their critical understanding of policy and practice, improve their scholarship, and make an original contribution to knowledge development within their field, while at the same time fulfilling their existing responsibilities.

The specialist taught modules develop an understanding of the development of end of life services and movements in different settings and cultures around the world; the models of care that have been adopted; and the issues involved in assessing the impact of these – individually, socially and societally.
**PhD Programmes**

**blended learning; coursework and thesis (continued)**

**PhD in Public Health**

**Director of Studies**
Dr Paula Holland.

**Duration**
48-84 months part-time.

**Entry requirements**
An upper second class honours degree or a good masters degree, in an appropriate subject, and relevant work experience.

**IELTS**
At least 6.5 overall (minimum element scores apply).

**Assessment**
Combination of taught modules, original research and thesis.

**Further information**
www.lancaster.ac.uk/shm/study/doctoral_study/phd/public_health

The PhD in Public Health provides opportunities for professionals working within the field of public health, in the UK and internationally, to gain a deeper and more critical insight into their practice, whether they are based within healthcare settings, within local government, education, research or management.

This programme meets the needs of public health professionals wishing to enhance their research skills, develop their understanding of policy and practice, and make an original contribution to knowledge development within their field, while at the same time fulfilling their existing responsibilities.

The specialist taught modules include both the theory and practice of public health (health protection, health promotion and policy).

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**Professional Doctorate**

**Doctorate in Clinical Psychology (DClinPsy)**

**Course Directors**
Dr Anna Daiches (Clinical Director) and Dr Jane Simpson (Research Director).

**Duration**
36 months full-time.

**Application Procedure**
Via the national clearing house (www.leeds.ac.uk/chpccp).

**Entry requirements**
First degree in Psychology, or an equivalent qualification which confers eligibility for Graduate Basis for Chartership (GBC) from the British Psychological Society (at time of application). Applicants must do well in written test assignments before being invited to interview (see website).

**IELTS**
7.0 (or a ToEFL Score of 93) or equivalent.

**Assessment**
Clinical competence, clinical skills assessments, professional issues assignments, systematic literature review, service-related project and thesis. The assessments for the programme are currently under review; please consult our website for the latest information.

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**Financial support**
Participants are employed as trainee clinical psychologists on a three-year training contract with the Lancashire Care Foundation NHS Trust (conditions of service apply). Placements may involve extensive travelling as a result of the location or the nature of services provided; assistance with travel expenses is provided.

**Further information**
www.lancaster.ac.uk/fhm/study/doctoral_study/dclinpsy/new

Our aim in training is to strike a balance between the interests of the individual trainee, formal professional training requirements, academic requirements appropriate for a doctoral level qualification, and the broader and developing needs of a clinical psychologist within the National Health Service.

**Academic structure**
The formal academic programme is organised on the basis of (at least) one full day teaching per week. In addition, trainees normally receive one full day per week for study and research time. There are nine curriculum strands which run through the three years of the programme: theory to practice, transferable clinician skills, personal development and reflection, physical and cognitive development across the lifespan, critical and community psychology, research, professional issues, assessment and quality assurance.
Clinical structure
Clinical placements are undertaken throughout the three years. Normally, all trainees undertake the same sequence of placements at the same time. It is anticipated that clinical training will start with a placement working with children and families, followed by work with adults, then older adults, and finally people with learning disabilities.

Each of the four placements lasts six months. In the third year, trainees undertake a longer placement of eight to nine months’ duration. Course staff visit each supervisor and trainee during placements to discuss progress.

Assessed work
Over the course of the three years, trainees submit the following:
- two professional issues assignments
- two placement presentations and reports
- one systematic literature review

Please note that the assessments are currently under review and may differ for the 2015 intake.

Research
Trainees are required to submit a service-related project and a thesis. The thesis is undertaken throughout the second and third year of training and comprises:
- An ethics committee research proposal
- A literature review, written in academic journal format
- A research paper describing the study, written in academic journal format
- A critical appraisal of the research project

Trainees are encouraged to submit their work to appropriate academic journals and to carry out their research in an area that a member of staff has expertise in.

Development and support
The course uses a number of complementary support systems to facilitate trainees’ personal and professional development. In addition to supervision while on placement (including visits from clinical tutors) and informal peer support, there are bi-annual trainee progress reviews held with each trainee’s research and clinical tutors.

The review process provides an opportunity to discuss progress and your individual training needs. The support scheme also offers continuity of contact with two members of the course team over the three years of training. All trainees are invited to take advantage of a mentor system, in which all mentors are local clinical psychologists. There is also the opportunity to access a limited number of cognitive analytical developmental sessions.
Our research interests

Within Health Research we undertake research in the following areas: ageing and palliative and end of life care, mental health and organisational well-being, public health, health equity, disability studies and health economics.

Ageing research: The Centre for Ageing Research is an interdisciplinary centre of social scientists, scientists and biomedics. We work around the broad themes of: older people and new technologies, care of older people, health and their environment, mental health and mental well-being amongst older people, healthy ageing; and understanding normal ageing processes.

Palliative and end of life care research: The International Observatory on End of Life Care was established in 2003. As a multidisciplinary team we conduct research on: patient and carer experiences, specifically in marginalised groups such as older people in care homes; symptom management; evaluations of service configurations and models; public and professional engagement.

Mental health research: The Spectrum Centre for Mental Health Research was established in February 2008. We conduct research to develop, test, disseminate and implement clinically effective psychosocial interventions for mental health problems. The Centre has a major focus on translational research into psychosocial interventions to improve clinical outcomes for people with bipolar disorder. Other research we undertake focuses on abnormal psychology, emotional and cognitive disorders. Mental health research is also undertaken by staff working on the Doctorate in Clinical Psychology. Research areas include the psychological effects and long term health conditions, therapeutic processes and clinical communication.

Organisational health and well-being: we develop research regarding the evidence base of workplace stress and well-being to address how health and well-being contributes to business performance.

Public health and health equity research: we focus on health inequalities and equity issues looking specifically at macro-social determinants of health and health inequity. Our research is structured around the following themes: understanding pathways from the wider social determinants of health to health (in)equity; evaluating complex area based interventions, public policies, and natural experiments; evaluating action to promote community/public empowerment; and developing and evaluating methods for effective knowledge exchange with public health policy makers and practitioners.
### Taught degrees

**PgDip in Cognitive Behaviour Therapy in Primary Care**

**Director of Studies**
Dr Anna Daiches.

**Duration**
12 months full-time, 24 months part-time.

**Entry requirements**
A first degree and relevant work experience in a core profession (e.g. social work, nursing or clinical psychology). The programme also accepts KSA students.

**IELTS**
7.0.

**Assessment**
A combination of assignments, portfolio of work and practicals.

**Further information**
[www.lancaster.ac.uk/fhm/study/cpd/cbt](http://www.lancaster.ac.uk/fhm/study/cpd/cbt)

Lancaster University has a long history of providing high quality Cognitive Behaviour Therapy (CBT) training for over five years. The programme is fully accredited with the British Association of Behavioural and Cognitive Psychotherapies (BABCP) to enable graduates to apply for accreditation as cognitive behavioural psychotherapists. The programme is based within the Division of Health Research which provides various practice based training including Medicine and the Doctorate in Clinical Psychology.

The programme follows the curriculum developed by the Department of Health guidelines for High Intensity CBT training (DoH, 2008). The training aims to ensure that trainees reach a level of competence that will enable them to obtain the outcomes reported in the relevant NICE guidance.

Practitioners will receive specialist training which focuses on assessing and treating adults with depression and anxiety disorders using evidence based cognitive and behavioural treatment protocols. The programme also provides specialist training on working with post-traumatic stress disorder, substance misuse and ‘trans diagnostic’ work.

The programme is aimed at experienced mental health professionals (e.g. nurses, social workers, psychological wellbeing practitioner etc.) who wish to become competent in CBT for adults.

My experience of undertaking a PhD programme in the Division of Health Research was a pleasant and enjoyable one – but of course a lot of hard work. The work load was however lightened by the invaluable help and support from the staff.

Dr Alfred Banya (PhD)
Lancaster Medical School

Lancaster Medical School staff have a wide range of research interests including epidemiology, medical education as well as social science and biomedical science subjects applied to medicine.

Lancaster Medical School is Britain’s newest medical school. The school offers a vibrant and energetic atmosphere in which to pursue postgraduate research. The energetic and committed staff pursue a wide range of research and can offer supervision and postgraduate teaching in a range of areas, including biomedical sciences, sociology and medical ethics, statistics and epidemiology.

While preserving traditional disciplinary strengths we bring together researchers from different disciplinary backgrounds. Modern approaches to health and medical research typically demand expertise from scientists with depth of knowledge in a specific discipline. They also demand interaction with other specialties. This broadens background understanding and ensures that our work is well targeted and develops transferable teamwork skills. Lancaster University has many areas of strength in research in health and medicine. The Lancaster Medical School acts as a catalyst to promote interactions and to enhance links with the NHS Trusts to develop collaborative and translational research both in the region and more widely.

CHICAS (Combining Health Information, Computation and statistics) is a high profile research group in medical statistics and epidemiology, particularly in geostatistical modelling and analytical methods. Other areas of research focus are: medical education, cancer research, ethics and sociology and diseases of the skeleton.

Research in the Lancaster Medical School is a lively, dynamic and growing aspect of our divisional activity and spans all aspects of medicine. Our current postgraduate students are a vital part of our vibrant research culture and take part in seminars and postgraduate symposia. There is a caring framework for postgraduate training and supervision in the School which is aimed at a high on-time completion rate for studies.

Research degrees

PhD in Medicine

Director of Studies
Dr Thomas Keegan.

Entry requirements
An upper second class honours degree, or its equivalent, in an appropriate subject and an interest in pursuing medical research at advanced level.

IELTS
At least 6.5 overall (minimum element scores apply).

Assessment
Original research and thesis.

Further information
www.lancaster.ac.uk/fhm/study and www.lancaster.ac.uk/fhm/med/research

A wide variety of medical and clinically applied research projects can be undertaken with the Lancaster Medical School. We offer a range of opportunities for advanced postgraduate study with experienced supervisors in areas including: statistics, epidemiology, medical education, social studies of science and technology in clinical practice; qualitative methods in health research; cellular responses to DNA damage; musculoskeletal medicine; and degenerative conditions in bone and medical ethics.
MSc (Research) in Medical Sciences

Director of Studies
Dr Thomas Keegan.

Duration
12 months full-time, 24 months part-time. Undergraduate medical students who are intercalating will start on 1st September and submit their thesis by 27th August; other applicants may take advantage of greater timetable flexibility.

Entry requirements
Undergraduate medical students intercalating between 4th and 5th years of study require a top quartile outcome in MBChB finals. Other applicants must hold an upper second class honours degree, or its equivalent, in a relevant subject area. Candidates with a lower second class degree may be invited to interview to assess suitability.

IELTS
At least 6.5 overall (minimum element scores apply).

Assessment
Original research and thesis.

Further information
www.lancaster.ac.uk/fhm/med

During the MSc (Research) you will undertake research training, a nine month research project, with a three month write up of your dissertation which will equip you for original work in your professional career and advanced level clinical research positions with the NHS, government and charities.

The course will train you to initiate medical sciences related research projects; to design, conduct and report independent and original research; to understand medical sciences research areas; to critically evaluate relevant literature; to develop problem solving skills; to analyse research data; to communicate effectively the results of research and scholarship; to understand scholarly conventions in the discipline area; and to have respect for intellectual integrity and the ethics of research.

Recent projects include:
- The role of osteoarthritic cytokines in ochronotic arthropathy
- Localisation of the stem cell population in the cornea
- Ethical decision making in organ donation
- How do students’ social networks evolve during their time at medical school?
Research degrees (continued)

PhD Statistics and Epidemiology
Director of Studies
Professor Peter Diggle.
Entry requirements
At least an upper second class honours degree or its equivalent, with a substantial statistical and/or epidemiological component.
IELTS
At least 6.5 overall (minimum element scores apply).
Assessment
Original research and thesis.
Further information
www.lancaster.ac.uk/fhm/study/doctoral-study/phd
CHICAS (www.lancaster.ac.uk/fhm/med/chicas) conducts research on the development of novel statistical and epidemiological methods and their applications. The methodological strengths of staff are in spatial statistics and longitudinal data analysis. The applied research spans a wide range of clinical settings both in the UK and internationally with collaborations in Europe, Africa, North and South America.
Research topics can focus on either methodological development, substantive application, or a blend of the two. Students will be allocated a space in a shared office and will be encouraged to attend and make presentations at scientific meetings both within the UK and overseas.

Doctor of Medicine (MD)
Director of Studies
Dr Thomas Keegan.
Duration
24 months full-time.
Entry requirements
Applicants must (i) hold a medical or dental qualification recognised by the UK General Medical/Dental Council, (ii) must have held this qualification for at least three years by the date of submission, and (iii) must be employed during their period of registration in appropriate clinical or scientific work in hospitals or institutions (associated with the University) within the local NHS region.
IELTS
At least 6.5 overall (minimum element scores apply).
Assessment
Original research and thesis, viva voce.
Further information
www.lancs.ac.uk/shm/study/
The Doctor of Medicine degree scheme provides opportunities for clinically qualified candidates to undertake a two year full-time Doctoral level research project at Lancaster (or part-time pro-rata).
Our links with many NHS trusts provide a wide range of opportunities for medically related research. You will be supervised by a clinical supervisor and a member of academic staff in Biomedical and Life Sciences or the Medical School.
Our research interests

Research in the School spans statistics and epidemiology, social science, medical education and medical science. Research can be undertaken in collaboration with the Divisions of Health Research and Biomedical and Life Sciences, other Lancaster departments, and a range of national and international research partners.

Medical Education: our research interests include: quality assurance in medical education, professionalism in medicine, innovation in medical education and admissions, public health and medical education, and medical education e-learning.

Biostatistics and Epidemiology: our current research topics include: Spatial and longitudinal data analysis, environmental and tropical disease epidemiology; e-health research.

Recent projects include:
- Short term forecasting of meningitis epidemics in sub-Saharan Africa
- Health effects on soldiers of taking part in chemical weapons tests
- The risk of childhood cancer from living near high voltage power lines
- The integration of statistical models with geographical information systems for real-time epidemiological applications
- Inference for log-Gaussian Cox processes
- Disease risk-mapping for the African Programme for Onchocerciasis Control (APOC)
- Early detection of incipient kidney failure in primary care patients

Social and Ethical Aspects of Health and Medicine: our research focuses on the cultures of healthcare work and patient safety. Our research studies are influenced by theoretical perspectives such as mobility studies; science and technology studies and feminist technoscience; ethnmethodology; organisational studies; medical sociology, anthropology and ethics.

Methodologically, we specialise in ethnography, documentary analysis, focus groups, and interviews on sensitive subjects with hidden populations.

We invite proposals for postgraduate study in the broad areas of medical sociology, anthropology and ethics; science, technology and medicine masculinities and health; and organisational aspects of healthcare work.

Recent projects include:
- Quantitative and qualitative methods for research into dementia in Blackburn and Darwen
- Network analysis applied to occupational flu vaccination in the National Health Service workers
- Characterisation of a novel substrate of the ataxia telangiectasia-mutated protein kinase
- Identification of the foreign protein component of immune complexes in rheumatological disease
- Identification of Ubl modification targets required for genome stability and the prevention of cancer

Medical Sciences: our research interests focus on cancer and DNA repair, and musculo-skeletal disease. Using our faculty-wide facilities we are able to carry out research in wide range of subjects in these research fields.
**Taught Programmes**

**PgCert in Clinical Research**

**Duration**
12 months (600 learning hours in total).

**Entry requirements**
First degree in a relevant subject, applicants with relevant professional experience and without a first degree should contact the Course Director.

**IELTS**
At least 6.5 overall (minimum element scores apply).

**Assessment**
Coursework.

**Further information**
www.lancs.ac.uk/fhm/divisions/med/study-with-us

The purpose of the programme is to provide an introduction to the core knowledge and skills that form the foundations of clinical research. It is aimed at doctors, health practitioners and healthcare scientists actively engaged in research or those planning a future career in research. The programme:

- Introduces students to the concept, definition, generation and dissemination of evidence-based clinical research
- Equips health professionals with an in-depth understanding of the skills and processes required to effectively support healthcare innovation across a wide range of health settings
- Draws upon the breadth of interdisciplinary research skills and internationally-recognised research expertise housed within the Faculty of Health and Medicine, complemented by specialist NHS knowledge and experience

Successful completion of the programme will enable professionals to:

- Participate in research projects, new initiatives and related activities to advance local research practice
- Support further development of NHS capability for research
- Integrate and utilise research knowledge to enhance the quality of their professional practice

**Modules**
The programme is delivered through nine face-to-face contact days over one year. Students who wish to extend their level of study may, on completion of the Postgraduate Certificate, progress to registration on the MSc in Clinical Research.

The overall programme comprises three modules (60 credits):

- Essential Tools for Clinical Research
- Governance and Management of Clinical Research
- Applying for Research Funding
  (to be confirmed)

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**Dr Laura Machin**

**Lecturer in Medical Ethics**

Broady, my research interests rest within the social and ethical aspects of medicine. I have a particular interest in matters related to reproductive medicine, the donation of body parts, blood and tissue, and patients’ rights. Throughout my research activities, I adopt an applied approach, whereby I consider the policy and practice implications of the topic under study.

My research has tended to be interdisciplinary in nature, drawing on a wide range of literature from medical sociology and ethics, and focused upon accessing hidden populations and interviewing on sensitive subjects. Undertaking research into the social and ethical aspects of health and medicine at Lancaster Medical School means that you will have a wealth of expertise into the cultures of healthcare work and patient safety; issues of learning, knowledge and practice; concepts of autonomy, responsibility and accountability, and use of technology in healthcare practice to draw on from experienced colleagues within the School, and wider University.

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Faculty of Health and Medicine – Lancaster Medical School
MSc in Clinical Research

Duration
Three years minimum, part-time (1800 learning hours in total).

Entry requirements
First degree in a relevant subject.

IELTS
At least 6.5 overall (minimum element scores apply).

Assessment
Coursework and practice-based dissertation.

Further information
www.lancaster.ac.uk/fhm/divisions/med/study-with-us

The MSc in Clinical Research has been designed, in consultation with NHS Partners, to meet the needs of practitioners and staff working in the NHS to ensure its relevance and value to NHS health professionals. The programme builds on the introduction to clinical research in the Postgraduate Certificate, developing and undertaking applied clinical research within an NHS organisational context. The programme:

- Addresses the complete cycle of clinical research, from identifying research questions, and designing and managing research studies, through to translating research findings into professional practice
- Enables health professionals to lead the development, delivery and translation of clinical research, supporting the processes of discovery and innovation at an organisational level
- Draws upon the breadth of interdisciplinary research skills and internationally-recognised research expertise housed within the Faculty of Health and Medicine, complemented by specialist knowledge and practical experience from NHS Partner organisations and research networks

Successful completion of the programme will enable professionals to:

- Lead research projects, innovations and new developments in order to advance local and national evidence-based clinical research practice
- Contribute to organisational development of NHS infrastructural research capability
- Contribute to the translation of research knowledge and skills to inform and develop the quality of evidence-based professional practice

The programme is delivered through blended learning with nine face-to-face contact days over the first year and the remainder undertaken through distance learning. The scheme is modular, with a tiered-exit design providing Postgraduate Certificate and Postgraduate Diploma awards as appropriate for participants who do not complete all modules for the MSc.

During the MSc you will gain key research knowledge and skills, transferred into practical topics applied within your own professional environment, culminating in a 12 month research project, designed, delivered and submitted as a dissertation. This will prepare you for original work in your professional career and advanced level clinical research positions with the NHS, government, industry and healthcare organisations.

The overall programme comprises eight modules as follows:

- Essential Tools for Clinical Research
- Governance and Management of Clinical Research
- Literature Review
- Principles of Evidence-Based Practice
- Analysing Qualitative Data
- Quantitative Data Analysis
- Practice-based dissertation
- Applying for Research Funding (to be confirmed)