

UNIVERSITY OF
BIRMINGHAM

Postgraduate courses in Environmental Health Sciences



Protection of the health and wellbeing of people and their environment is the key objective.

*Maurice Brennan,
Head of Environmental Health Teaching*

**College of Life and
Environmental Sciences**

School of Geography, Earth and Environmental Sciences

Environmental Health Science combines public health and the natural and environmental sciences. It identifies physical, chemical and biological threats which cause illness, injury and disease, provides solutions to resolving them, and the development of policy and technical solutions to maintain the good health and wellbeing of the workforce, local communities and the environment.

You will be taught to apply your knowledge to solve the diverse problems caused by modern day living. There is now a strong demand for these skills in a wide a range of governmental, industrial, commercial, and educational settings.



Our Masters programmes

MSc in Environmental Health

This is a vocational course for those who wish to become Environmental Health Practitioners. It is accredited by the Chartered Institute of Environmental Health (CIEH). The syllabus covers all the main topics relating to the environmental threats to community health including pollution control, food safety, public health protection, occupational health and safety, and law enforcement. On completion, you will undertake a work placement before taking the professional examinations of the CIEH. The course is offered full time or part time.

MSc Air Pollution Management and Control

This programme is designed to provide a comprehensive understanding of all aspects of air pollution, its management and control. It provides all the necessary underpinning basic science of the atmosphere, both its physics and its chemistry, needed to understand air pollution and its dispersal, and its impact on climate change. It explains the causes and the effects/impacts of air pollution, its management from local to international levels, and the engineering controls used to reduce emissions from industry and transport. It is a one year full-time course, with a variety of assessments including examinations, essays and reports.

MSc Public and Environmental Health Science

This programme looks at the impacts that environmental health stressors (threats) have on the physical health and social wellbeing of individuals and communities. These threats can be physical (heat, cold, noise); chemical (air, water, land, pollution); biological (bacterial, viral, parasitic); social (envirocrime- antisocial and criminal behaviours) and psychosocial (mental illness and distress). It provides the opportunity to understand how to risk manage these threats and to develop complex solutions to reduce or eliminate them through the active use of real case studies. This is a full time course for international students who wish to develop a career in environmental health practice. It is endorsed by the Chartered Institute of Environmental Health. The syllabus covers a broad range of topics including public health protection, pollution control, food safety, occupational health and safety, and emergency management. There is an opportunity for hands-on experience and a number of organised trips to support your learning and teaching.

'The lecturers are extremely enthusiastic about what they teach and are experts in their fields, offering students a wide range of knowledge and support'

Zainab Hassan from Kuwait

MSc Public and Environmental Health Sciences student



MSc Science of Occupational Health, Safety and the Environment

On successful completion of this programme, you will be in a position to identify, evaluate and provide solutions to a wide range of hazards and risks in occupational health, safety and the environment to be found in industry, commerce, marine and agricultural situations.

The comprehensive syllabus recognises the importance of technical, practical and team-building skills within these sectors. Accredited by the Institute of Occupational Safety and Health.

MRes Human and Environmental Health Impacts of Nanoscience and Nanotechnology (HEINN)

This programme is designed to provide you with a comprehensive understanding of all aspects of nanoscience and its potential environmental and human health related risk. The MRes focuses on the fundamental and underpinning science but also discusses applications, synthesis and policy and regulatory responses. It is a research focused Masters programme with a large part of the course devoted to an independent, but supervised, research project which will be performed in state-of-the-art laboratories.

Career opportunities

All of our MSc programmes can be the foundation for career development to a senior level in a range of industrial, commercial, educational, research, government health or regulatory services.

Our programmes support careers in the following areas:

- MSc in Environmental Health – careers in local government, Environment Agency, health and safety, government departments, NHS, major retailers, commerce and industry, education and training, and consultancies
- MSc Public and Environmental Health Sciences – careers in government health services, regulatory services, industry, commercial consultants, universities and NGOs
- MSc Science of Occupational Health, Safety and the Environment – careers in petrochemicals, construction, water and energy utilities, pharmaceuticals, transportation, retail, and universities
- MSc Air Pollution Management and Control – environmental consultancies, petrochemicals, chemical engineering, regulatory services, and universities
- Examples of companies or national institutions that have employed our students or provided sponsorship include: Health Protection Agency UK, Birmingham City Council, Hilton Hotels, Asda Supermarkets, Skanska Construction, Environment Agency, Amey Mouchel Consultants, Mott Macdonald Consultancy, Bahraini Oil Company, Saudi Aramco, Governments of Kuwait, Oman and Zambia

Learn more

Admissions enquiries:

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Tel: +44 (0)121 414 3077



Key features

- Our campus has modern facilities for teaching including lecture theatres, computer clusters and laboratories
- You will have the opportunity to go on field trips analysing specific commercial or industrial processes such as air pollution monitoring sites, waste disposal areas, food processing factories and exhibition arenas
- You will be taught and supported in your own research dissertations by scientists within the Division of Environmental Health and Risk Management who are of international reputation



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