

One year full time/two years part time

MSc in Air Pollution Management and Control

Postgraduate Diploma in Air Pollution
Management and Control



Air Pollution is a key environmental challenge facing society today, with increasing pressures from economic development and climate change. The Air Pollution Management and Control courses provide graduates with the scientific understanding and practical skills to address this challenge, and to improve human health and environmental quality in the future.

Dr William Bloss, Programme Leader

Challenge what you know.

Recommended by the Institute
of Air Quality Management (IAQM)

School of Geography, Earth and Environmental Sciences

MSc in Air Pollution Management and Control

Postgraduate Diploma in Air Pollution Management and Control



Key features

- Causes, effects and control of air pollution and climate change
- Underlying atmospheric processes and meteorology
- Interaction of air pollution and climate change
- Includes the diverse range of air quality issues encountered worldwide
- Experimental, field-based or modelling independent research project
- Course recommended by the Institute of Air Quality Management (IAQM)

Who are these courses aimed at?

The Air Pollution Management and Control courses are designed for students looking for a future in air quality management, environmental consultancy and industrial emissions control, and to provide further professional development and training for those currently working in these areas. They also provide a thorough scientific training in air pollution and climate change issues for further study and entry to PhD programmes. Typically our intake includes both students who have just completed undergraduate degree courses and those currently in employment, and is split roughly equally between home and international students.

How are the courses structured?

The MSc in Air Pollution Management and Control comprises taught modules covering the scientific and practical causes and management of air quality (120 credits), followed by a major independent research project (60 credits). The Postgraduate Diploma comprises the taught modules only. Both courses are available on a full-time (one year) and part-time (two year) basis. Lectures are timetabled in blocks to facilitate part time study alongside employment.

Overall the courses will equip you with the theoretical background and practical skills needed for a career in air quality management and control. We focus on both the underlying scientific processes governing atmospheric composition, and the technical methods and legislative processes applied to address a variety of air quality issues. The course is taught by experienced staff from the University of Birmingham, and by external expert speakers drawn from local authorities, industry and consultancies.

Taught modules offered include:

- Causes and Effects of Air Pollution
- Atmospheric Physics and Composition
- Air Pollution Meteorology
- Air Pollution Chemistry
- Air Quality Management
- Industrial Emissions Control
- Carbon Management
- Physical Climatology and the Climate System

The major research project within the MSc course allows students to explore in depth an aspect of air pollution of their choosing. The project will be supervised by a member of academic staff with relevant expertise, and students will be able to access our research laboratories, computing resources and atmospheric monitoring equipment, and will often work closely with highly skilled research staff.

Assessment

A variety of assessment methods are used, including written coursework, case studies, oral presentations and standard examinations. The major research project is assessed through a written dissertation.

Careers

Graduates from the course go on to a variety of employment destinations, including local authorities, the Environment Agency, consultancies and private industry, and further study (undertaking PhDs). Air Quality monitoring and improvement is a legislative requirement in many countries, supporting demand for trained graduates.

How to apply

The quickest and most efficient method is to apply online. This allows you to complete the application process at your own pace, using our 'save and return' option. Apply online at www.apply.bham.ac.uk

Application forms can also be obtained from the course administrator, details below.

Fees and funding

For further information see www.birmingham.ac.uk/students/fees/postgraduate

Learn more

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