



Loughborough
University

**MSc Water Management for Development (WMD)
MSc Water Engineering for Development (WED)
with Distance Learning options**

**School of Architecture, Building and
Civil Engineering**

Dr Julie Fisher

Distance Learning Programme Director
Water Engineering and Development Centre

Research areas

Water, Sanitation and Hygiene (WASH)



Research areas

Water Hazards and Risk Resilience



Research areas

Water Quality, Water Security and Environmental Engineering



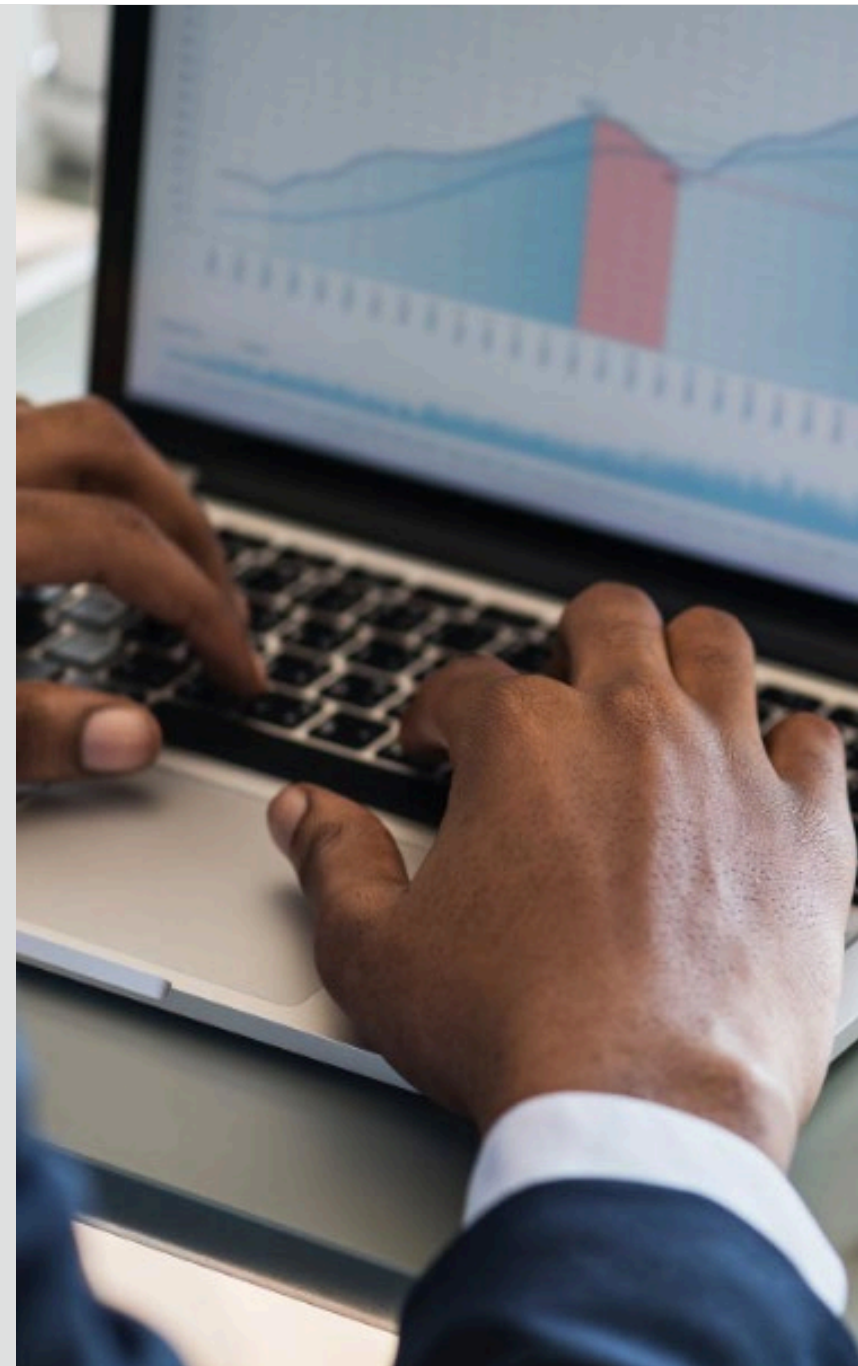
Research areas

Hydrodynamics, Fluvial Processes and Catchment Management



Research projects – examples

- SWITCH: Managing water for the city of the future
- Excreta flow analysis to inform urban sanitation planning
- Undoing inequity: Disability and ageing in WASH
- Water Safety Plans
- Evaluating the resilience of critical infrastructure for emergency response to extreme flood events
- The properties of non-equilibrium turbulence



Our academics

- Professor Graham Sander
- Professor M. Sohail
- Professor Qiuhua Liang
- Professor Lee Boshier
- Professor Chris Keylock
- Dr Tim Marjoribanks
- Dr Ksenia Chmutina
- Dr Xilin Xia
- Ms Rebecca Scott
- Dr Julie Fisher
- Dr Tanja Radu
- Mr Kevin Sansom
- Dr Andrew Longley
- Dr Sam Kayaga



Facilities

- Modern classrooms with lecture capture systems
- Modern laboratory facilities, including chemical, microbiological and hydraulic engineering labs
- Various demonstration facilities, including a selection of handpumps
- Outdoor study area



Postgraduate programmes

Can be studied at four levels dependent on modules undertaken:

- MSc (8 modules + dissertation)
- Postgraduate Diploma (8 modules)
- Postgraduate Certificate (4 modules)
- Professional Development (1-3 modules)



Water Management for Development

- The programme is multi-disciplinary
- It targets water professionals seeking to manage water and environmental sanitation services for low- and middle-income countries
- There are three regular delivery modes:
 - Full-time 1-year programme at Loughborough
 - Part-time Distance Learning programme for 3 to 5 years
 - Full-time Distance Learning programme for 1 year



Water Engineering for Development

- The programme is for engineers who would like to develop their career in water and sanitation engineering for low- and middle-income countries
- There are two regular delivery modes:
 - Full-time 1-year programme at Loughborough campus
 - Part-time Distance Learning programme for 3-5 years



Programme structure and assessment

- 7 **compulsory** modules
- 1 module selected from 2 or 3 **optional** modules
- Assessment is through several **assignments** for each taught module, and a **dissertation** on an agreed topic



Accreditations

The programmes are accredited by:

- Chartered Institute of Water and Environmental Management (CIWEM)
- Joint Board of Moderators (Institution of Structural Engineers, Institution of Civil Engineers, Chartered Institution of Highways and Transportation, Institute of Highway Engineers)

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HIGHWAY
ENGINEERS

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Institution of Civil Engineers

Examples of current student projects

- The impact of climate change on water resources in remote Aboriginal communities in Western Australia
- Non-revenue water initiatives in developing countries, a case of Kampala, Uganda
- Assessing the effects of the post Open Defecation Free (ODF) strategy on the sustainability of rural sanitation in Mali
- Recovery of clean water from hydrothermal carbonisation liquid
- Drinking water and health in indigenous/first nation population in Canada
- Sustainable urban drainage systems in Chinese small towns

Industry partnerships and collaborations



OXFAM



Career opportunities

- Sanitation Technical Manager
- Water and Sanitation Consultant
- Project Manager
- Environmental Engineering Consultant
- Civil Engineering Specialist
- Senior Water and Sanitation Specialist at The World Bank
- Chief of WASH at UNICEF
- Director of a Government Water Development Department
- Solid Waste Management Director at a City Council
- Lecturer in universities



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Thank you

Further information

lboro.ac.uk/research/wedc

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