



## MSc Humanitarian Engineering

POSTGRADUATE STUDY

**WARWICK**  
THE UNIVERSITY OF WARWICK

## To engineer a better world we need expertise that spans technology, management and social sciences.

Humanitarian Engineers create appropriate, sustainable and holistic solutions to global challenges by integrating science and engineering with approaches from social sciences, law, health and medicine, management, business, and economics.

This unique and cutting-edge course provides students with rigorous interdisciplinary training in the field of Humanitarian Engineering, from international development to humanitarianism and disasters emergencies.

- ▶ MSc Humanitarian Engineering
- ▶ MSc Humanitarian Engineering **with Sustainability**
- ▶ MSc Humanitarian Engineering **with Management**



This flexible and innovative course offers you the opportunity to tailor your studies towards engineering, management, or social sciences.

## CAREERS

Humanitarian Engineering graduates will be well-placed to work with governments (e.g. central banks, ministries of finance, rural development, and education).

You'll gain skills that are sought by multilateral development institutions (e.g. World Bank, IMF, United Nations), NGOs and private sector (e.g. professional services, manufacturing, and investment banking). Some students may decide to pursue PhD studies.

Students may choose to undertake a **Master of Science, Postgraduate Diploma, Certificate or Award.**

## ENTRY REQUIREMENTS

A Bachelor's degree (in Engineering, Science, Social Science, Business, Medical Science) with a minimum classification of Second Class Honours, Upper Division (2:1) or its international equivalent. We will consider graduates of all disciplines, as well as applicants with a degree result of 2:2 (or equivalent) with relevant professional experience.

## LANGUAGE REQUIREMENTS

IELTS Band of 6.5 or more overall, with a minimum writing score of 6.5 and no other subsection below 6.0.

## COURSE DURATION

Full time MSc: 12 months | Part-time MSc: 24 months

## ASSESSMENT

A combination of written assignments (reports, essays, case studies), oral and poster presentations, videos, design portfolios and creative student-devised assessments.

## FEES AND FUNDING

Fees information is available on the University of Warwick website [warwick.ac.uk/pgfees](http://warwick.ac.uk/pgfees)

## MSc HUMANITARIAN ENGINEERING

The **MSc in Humanitarian Engineering** spans a broad range of disciplines and is ideal for students who are looking to explore all the professional and disciplinary facets of humanitarian challenges.

### CORE MODULES

- ▶ Humanitarian Engineering: Ethics, Theory and Practices
- ▶ Water and Environmental Management
- ▶ Disasters, Resilience and Urban Data
- ▶ Renewable Energy
- ▶ One Humanity; Shared Responsibility
- ▶ An Introduction to Global Health

### OPTIONAL CORE MODULES

- ▶ Humanitarian Law

### OPTIONAL MODULES

#### List A

- ▶ Sustainable Cities and Infrastructures for Emergencies
- ▶ Sustainable Operations and Humanitarian Supply Chains
- ▶ Mindful Project Management
- ▶ Industrial Ecology and Sustainable Engineering

#### List B

- ▶ Design Thinking for Social Impact
- ▶ Challenges to Global Food Security

### STUDY PROGRAMME

- 2 optional modules (1 from List A and 1 from List B)
- Project

FIND OUT MORE



EXPLORE OUR MODULES ONLINE



## MSc HUMANITARIAN ENGINEERING WITH SUSTAINABILITY

Students with a keen interest in Engineering might wish to pursue the **MSc Humanitarian Engineering with Sustainability**, which focuses on renewable energy, sustainable cities, and infrastructures for emergencies.

### CORE MODULES

- ▶ Humanitarian Engineering: Ethics, Theory and Practices
- ▶ Water and Environmental Management
- ▶ Disasters, Resilience and Urban Data
- ▶ Renewable Energy
- ▶ One Humanity; Shared Responsibility
- ▶ An Introduction to Global Health

### SPECIALIST CORE MODULES

- ▶ Sustainable Cities and Infrastructures for Emergencies
- ▶ Industrial Ecology and Sustainable Engineering

### OPTIONAL MODULES

- ▶ Humanitarian Law
- ▶ Design Thinking for Social Impact
- ▶ Challenges to Global Food Security

### STUDY PROGRAMME

- 6 core modules
- 2 specialist core modules
- 1 optional module
- Project

FIND OUT MORE



## MSc HUMANITARIAN ENGINEERING WITH MANAGEMENT

Students who want to develop expertise in Management might prefer the **MSc Humanitarian Engineering with Management**, which offers opportunities to explore project management, communication and leadership, and management of sustainable supply chains.

### CORE MODULES

- ▶ Humanitarian Engineering: Ethics, Theory and Practices
- ▶ Water and Environmental Management
- ▶ Disasters, Resilience and Urban Data
- ▶ Renewable Energy
- ▶ One Humanity; Shared Responsibility
- ▶ An Introduction to Global Health

### SPECIALIST CORE MODULES

- ▶ Sustainable Operations and Humanitarian Supply Chains
- ▶ Mindful Project Management

### OPTIONAL MODULES

- ▶ Humanitarian Law
- ▶ Design Thinking for Social Impact
- ▶ Challenges to Global Food Security

### STUDY PROGRAMME

- 6 core modules
- 2 specialist core modules
- 1 optional module
- Research project

FIND OUT MORE





Find out more at [warwick.ac.uk/humeng](http://warwick.ac.uk/humeng)

**School of Engineering**  
University of Warwick  
Coventry, CV4 7AL  
United Kingdom  
[hum.eng@warwick.ac.uk](mailto:hum.eng@warwick.ac.uk)



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This course information was accurate at the time of design. Our courses and module content and schedule is continually reviewed and updated to reflect the latest research expertise at Warwick, so it is therefore very important that you check the website for the latest information before you apply and when you accept an offer.



Recognising commitment to advancing women's careers in STEM (Science, Technology, Engineering, Mathematics and Medicine) academia.

This degree is accredited by the Joint Board of Moderators (JBM) comprising of the Institution of Civil Engineers, Institution of Structural Engineers, Institute of Highway Engineers, and the Chartered Institution of Highways and Transportation on behalf of the Engineering Council as meeting the requirements for Further Learning for a Chartered Engineer (CEng) for candidates who have already acquired a partial CEng accredited undergraduate first degree.