

Cranfield University

About Cranfield University

Our Vision: To be valued globally for tackling the real-world issues of today to deliver a sustainable future.

- We work in partnership with business, academia, governments and other organisations to develop and deliver applied research and innovative education in science, technology, engineering and management.
- We are an exclusively postgraduate university located at the heart of the UK.



Facts and figures





















Distinctive strengths

Our expertise is in our deep understanding of technology and management and how these work together to benefit the world. Each of our 'Themes' is focussed on providing real solutions for people and the planet and sits within one of our four interdisciplinary Schools

Our Research Themes

- Aerospace,
- Defence and Security,
- Energy and Sustainability,
- Environment and Agrifood,
- School of Management,
- Manufacturing,
- Transport Systems,
- Water.

Our Schools







School of Water, Energy and the Environment

Water, Energy and the Environment



Creating sustainable solutions for people and the planet



Water



Environment and Agrifood

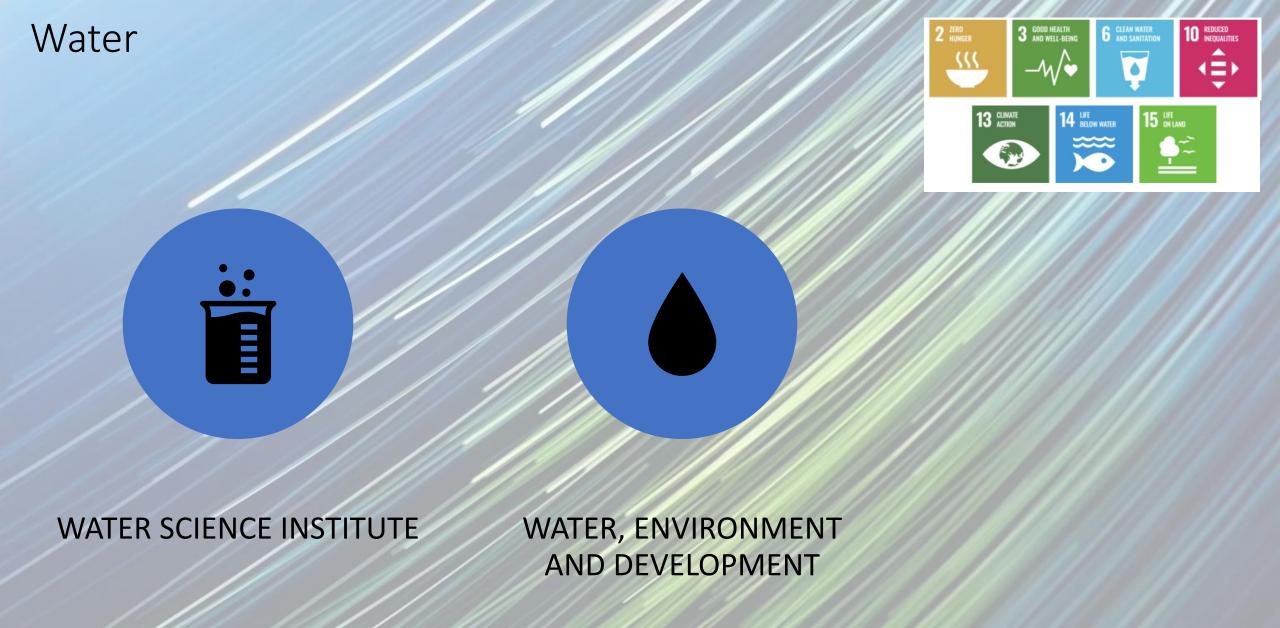


Centre for Design Engineering





Energy and Sustainability



World-class facilities: used for research and teaching



£24 million investment in facilities over the last five years.



UKCRIC facilities:

- National Research Facility for Water and Wastewater Treatment, incorporating a pilot hall for novel water treatment technologies.
- Advanced sensor development lab.
- Point of use potable water treatment lab.
- One of six UKCRIC national Urban Observatory sites, a campus-wide sensor network to monitor infrastructure and environmental performance and feed into the Oxford-Cambridge Arc
- National Environmental Sector Decarbonisation Accelerator
- Major node for Water and Sanitation for the Urban Poor (WSUP)



Energy and Sustainability





















RENEWABLE AND LOW CARBON ENERGY

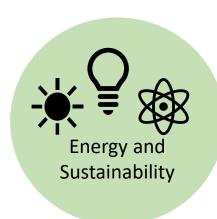
ENERGY ENGINEERING

ENERGY SYSTEMS AND STRATEGY

World-class facilities: used for research and teaching



£24 million investment in facilities over the last five years.



- Pilot scale, industrial-quality energy facilities, including the largest pipeline flow labs in Europe
- Landmark £9 million BEIS funded clean hydrogen demonstrator pilot plant (HyPER) for blue H₂ with CCUS
- BEIS £2 million Funded BIO-HyPER
- Materials and coatings for extreme applications
- Green Hydrogen and ammonia
- £4.9 million Research England Hydrogen Knowledge Exchange (HyDEX) Programme with the Midlands Energy Research Accelerator
- Lead in C-DICE RE Training Programme



Environment and Agrifood



















CRANFIELD ENVIRONMENT CENTRE

TO DRIVE TRANSFORMATIVE INNOVATION USING DIGITAL TECHNOLOGIES AND SYSTEMS THINKING, CRUCIAL IN ACHIEVING SUSTAINABLE DEVELOPMENT GOALS.

SOILS, AGRIFOOD AND BIOSCIENCES

A WORLD-CLASS RESEARCH CENTRE DEDICATED TO UNDERSTANDING SOIL, PLANT, AND MICROBIAL SYSTEMS, WITH THE AIM OF TACKLING GLOBAL FOOD AND ENVIRONMENTAL CHALLENGES.

World-class facilities: used for research and teaching



£24 million investment in facilities over the last five years.



- Two national Agri-Tech Centres; pilot scale plant phenotyping and soil health facility in a nine metre-high glasshouse with fully instrumented multi channel imaging platform.
- Agri-informatics facility; recognised by the Department for Environment Food & Rural Affairs (Defra) as the National Soil Collection and a Centre of Excellence for data science related to precision agriculture.
- Home of the Agri Informatics and NERC 'Constructing a Digital Environment' Programme

About us

School of Water, Energy and the Environment (SWEE)

Creating sustainable solutions for communities and the planet





Dr Navya Thomas Research Fellow in Membrane Crystallisation



Dr Tosin Adedipe Technical Project Manager



Food and Veterinary BUT.. More importantly SWEE's research and education mission aligned with critical global





Dr Carol Verheecke-Vaessen

Lecturer in Applied Molecular Mycology



Natalia Jawiarczyk EngD Research Engineer



Dr Yadira Bajon Fernandez

Senior Lecturer in Bioresources Science and Engineering



grand challenges:

- UN SDG's
- **Sustainable Development**
- **Circular Economy**
- Net zero
- **Food security**
- **Green Economic Recovery**
- Resilience
- **EDUCATION and COMMUNICATION**



Education: Our MSc's are hands on, experiential and highly employable









Full-time courses	Key UN SDG's
Advanced Chemical Engineering MSc	7, 9, 11, 13
Advanced Digital Energy Systems MSc	7, 9, 11, 13
Advanced Heat Engineering MSc	7, 9, 11, 13
Advanced Process Engineering MSc	
Advanced Mechanical Engineering MSc	7, 9, 11, 13
Renewable Energy MSc	7, 9, 11, 13
Applied Bioinformatics MSc	2
Food Systems & Management MSc	2, 12, 13, 15
Future Food Sustainability MSc	2, 12, 13, 15
Environmental Engineering MSc	11, 12, 13, 15
Environmental Management for Business MSc	11, 12, 13, 15
Geographical Information Management MSc	11, 13, 15
Global Environmental Change MSc	6, 7, 11, 13, 14, 15
Land Reclamation and Restoration MSc	
Advanced Water Management MSc	6, 11, 13
Water & Sanitation for Development MSc	6, 10, 11, 13
Water & Wastewater Engineering MSc	6, 9, 11, 13
Design Thinking MDes	9, 11, 13

