POSTGRADUATE DIPLOMA BIOECONOMY WITH BUSINESS

IKC3 CARBON, CLIMATE & COMMUNITY ACTION

Course NFQ Level 9 (60 credits)
1 Year Part-time, Online, Blended

Course Code:TL_SCREC_U

Programme Overview

The Postgraduate Diploma in Bioeconomy with Business is a flexible, one-year part-time, blended programme designed to enable upskilling of those in the workplace and those seeking to engage in further study. The bioeconomy is one of the EU's largest and most important sectors encompassing agriculture, forestry, fisheries, food, bio-energy and bio-based products with an annual turnover of circa €2 trillion, employing around 18 million people, creating €621 billion benefits and 4.2% of the EU's GDP. The bio-based industries have the potential to generate 1 million innovative jobs across the EU by 2030.

This level 9 programme is positioned at the interface of primary production, sustainable processing, biotechnology, new product development, supply chain dynamics, innovation, business and policy. Co-developed by an interdisciplinary team from MTU, UCD and Teagasc, students will gain a deep and critical understanding of the theories, concepts and frameworks of the bioeconomy from technological, environmental, social and business perspectives. A suite of innovative pedagogies (peer-to-peer learning, place-based learning, action learning, professional and work-based learning, site visits and case studies) will be applied across the curriculum. This approach will equip graduates with the skills and competencies to exchange and apply learnings (bioeconomy in practice) within the workplace, be that public or private sectors, SMEs or large organisations.

Programme Modules

- Bioeconomy Model for the Transition to a Low Carbon Economy
- Bioeconomy Feedstocks
- Life Cycle Assessment
- Conventional Valorisation Technologies
- Biorefinery Processes & Technologies
- Biobased Value Chains, Products, Processes & Markets
- Green Technologies Project
- Policy & Social Aspects of the Bioeconomy
- Knowledge, Innovation & Industry
- Work-based Learning: Bioeconomy Improvement Opportunity

Entry Requirements

Applicants must hold a minimum NFQ level 8 (2nd class honours) degree in science, business, management, engineering, or a relevant degree area. The University's policy in relation to recognition of prior learning (RPL) also applies.

Progression Opportunities

On successful completion of the programme students will have gained 60 credits at NFQ level 9 and may have the option to progress to the MSc in Bioeconomy with Business.

University Partners

MTU
Munster Technological University

UCD DUBLIN
University College Dublin

Trinity College Dublin
The University of Dublin
Trinity College Dublin

- Programme delivery spanning three world class university teams MTU, UCD & TCD
- Access to leading academics and a world-class entrepreneurial community
- Exclusive networking opportunities with regular guest talks by industry leaders, masterclasses, events & collaborative opportunities

"The flexible nature of the content delivery allowed me to undertake the programme without sacrificing work and family commitments. As a student I was exposed to a wide variety of learning methods and course content with different modes of assessment such as submission of written reports, attending workshops, peer discussions and online exams. The design of the programme, and the content delivered equipped me with the skills, competencies and confidence to explore new career opportunities and align my professional life with my personal goals and values."
Dave Barry

"A unique program with a breadth and depth of the possibilities the bioeconomy can deliver. The level of engagement from the teaching staff and interaction with fellow students through group activities ensured that my skills and knowledge developed consistently."
Robert Ludgate

www.ikc3.ie