Ollscoil na Gaillimhe
University of Galway

Coláiste na hEolaíochta
& na hInnealtóireachta
College of Science
& Engineering

ME
Energy Systems Engineering

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ME

Energy Systems Engineering

Why choose this course?

Energy Systems Engineering is a multidisciplinary programme designed to equip graduates to lead the transition to a sustainable, secure and resilient energy future.

Energy Systems Engineers can be found in companies that design and build giant wind turbines, in the control room of our power grid, rolling out electric vehicles, and charging networks, deploying green hydrogen infrastructure and designing zero carbon buildings.

The Masters of Engineering (ME) in Energy Systems can be undertaken as part of an integrated (Bachelors & Masters) 4+1 programme of study or as a standalone Level 9 Masters for graduates of relevant Level 8 Bachelors of Engineering programmes.

The ME programme is fully accredited by Engineers Ireland and allows graduates of recognised Level 8 degrees to achieve the educational requirements for Chartered Engineer (CEng) status.

Course Overview

Energy Systems Engineers are the people who are transforming the way we use, store and produce energy, meeting the world's growing energy needs, protecting the environment, and increasing energy security.

This course builds on your primary engineering degree with energy-focused classes on topics like zero carbon energy systems, fuels and hydrogen, zero energy buildings, smart grids, and more.

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You will broaden your horizons to see the big picture with classes in energy economics and policy, climate change and advanced computer modelling.

A major 9-month individual project, which may be aligned with community, research or industry partners enable you to explore the energy and environment challenge in impactful, practical and meaningful ways.

Career Opportunities

Energy Systems Engineering graduates are ideally suited for careers in power generation, smart grid, green hydrogen, energy supply management, design of energy-efficient products and processes, sustainable transformation of organisations, communities and businesses, renewable fuels and sustainable transport, environmental protection, and research. They are employed at some of the world's leading companies including ESB, EM3, Toyota, Gas Networks Ireland, EirGrid, Accenture, Kingspan, Simply Blue Energy, SSE, Deutsche Bahn, and General Electric.

Duration

9 months, full-time

Average Intake

30

> **The course equips you with the fundamentals of engineering whilst providing in-depth knowledge of a wide range of conventional and future energy generation technologies.**
>
> **Seán Óg Ó Loideáin**
> Energy Systems Engineering ME

Find out more
The College of Science and Engineering

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