Ollscoil na Gaillimhe
University of Galway

Coláiste na hEolaíochta
& na hInnealtóireachta

College of Science
& Engineering

BE/ME

Energy Systems Engineering

University *of* Galway.ie

BE/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.

Graduates of the integrated BE/ME in Energy Systems Engineering are awarded a Level 8 Bachelors degree as well as a Level 9 Masters degree.

The integrated BE/ME programme is fully accredited by Engineers Ireland and allows graduates 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 prepares you with the fundamentals of mathematics, physics, chemistry, and engineering, hands-on labs in our state-of-the-art facilities, energy-focused classes on topics like zero carbon energy systems, fuels and hydrogen, zero energy buildings, smart grids, and more.

Individual and group projects aligned with community and industry partners throughout the course enables you to explore the energy and environment challenge in hands-on, practical and meaningful ways.

All students undertake an 8-month industry work placement as part of the Energy Systems Engineering programme.

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

4/5 years

> **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

University *of* Galway.ie

Find out more
The College of Science and Engineering

Christina Mulgannon
Energy Systems
+353 91 492 170
energyeng@universityofgalway.ie