4 YEARS AT SOOCHOW + 1 YEAR AT TRINITY

Graduate with a Degree from Ireland’s Leading University

www.tcd.ie/study
Trinity by Numbers

1st
Ireland’s Leading University
(QS World University Ranking 2023 and THE World University Ranking 2022)

1st
Trinity is 1st in Europe for producing entrepreneurs for the 7th year in a row
(PitchBook Universities Report 2021)

3rd
Ireland has the 3rd highest quality of life in the world
(United Nations Human Development Index 2022)

29%
29% of our student body is from outside Ireland, from 116 countries

91st
91st in the World for Graduate Employability
(QS Graduate Employability Ranking 2022)

98th
98th World Ranking
(QS World University Rankings 2023)
Over 133,000 Trinity alumni (graduates) in 157 countries worldwide

Ireland’s Leading University
(QS World University Ranking 2023 and THE World University Ranking 2022)

12th Most International University in the World
(THE World University Ranking 2022)

91st in the World for Graduate Employability
(QS Graduate Employability Ranking 2022)

Trinity Top 100 University in the world for 19 Subjects
(Accounting and Finance, Biological Sciences, Chemistry, Classics and Ancient History (45th in the world)*, Dentistry, Education, English Language and Literature (25th in the world)*, History, Law, Materials Science, Medicine, Modern Languages, Nursing (42nd in the world)*, Performing Arts, Pharmacy and Pharmacology (25th in the world)*, Philosophy, Politics and International Studies, Social Policy and Administration, Theology, Divinity and Religious Studies)

Trinity ranks 6th in the world for gender equality
(Times Higher Education University Impact Rankings 2021)

98th World Ranking
(QS World University Rankings 2023)

29% of our student body is from outside Ireland, from 116 countries

Ireland has the 3rd highest quality of life in the world
(United Nations Human Development Index 2022)

Trinity Top 100 University in the world for 19 Subjects
(QS World Rankings 2022)

*Ranked Top 50 in the QS World Rankings 2022

Trinity Top 100 University in the world for 19 Subjects
(QS Subject Rankings 2022)

Over 133,000 Trinity alumni (graduates) in 157 countries worldwide
Trinity's Location

Why Ireland?

Ireland is an English speaking country.

Ireland has the 3rd highest quality of life in the world according to a recent UN report: [www.worldpopulationreview.com/country-rankings/hdi-by-country](http://www.worldpopulationreview.com/country-rankings/hdi-by-country)

Ireland is friendly and welcoming. 13th on the World Happiness Index

Dublin has been named the 7th best city in the world to visit in 2022. (Lonely Planet, 2022)

Trinity’s central location makes it highly accessible for all forms of public transport: tram, rail and bus stops are right outside the University.

Dublin airport is 13km (8 miles) from the campus and is directly accessible via bus or taxi. [www.tcd.ie/maps](http://www.tcd.ie/maps)

Ireland is ranked the 3rd most peaceful country in the world. (Global Peace Index 2022)

European hub for innovation and industry is based in Dublin: Google, Facebook, Microsoft, Intel, Pfizer and HP are based here.

As a Trinity graduate you can remain in Ireland to work for 1 or 2 years, depending on your level of study. Find out more: [www.irishimmigration.ie/my-situation-has-changed-since-i-arrived-in-ireland/third-level-graduate-programme](http://www.irishimmigration.ie/my-situation-has-changed-since-i-arrived-in-ireland/third-level-graduate-programme)
Global Pathway Programme

Study a master’s programme in Trinity, Ireland’s leading University. As part of the Global Pathway Programme, following completion of your undergraduate degree at Soochow University, you can transfer to Trinity to enter the MSc in Energy Science programme.

Why Study Energy Science at Trinity?

Trinity is Ireland’s leading university, steeped in history with a reputation for excellence in education and research. While our campus dates back over four hundred years, our research facilities and institutes sit right in the twenty first century. The MSc in Energy Science is designed to equip students with the theoretical knowledge and the practical skills to develop careers in the global energy sector.

International Dimension

Trinity attracts a global community of academics dedicated to addressing challenges of vital importance to the world around us and has a diverse student body with students from 118 different countries. Chinese students are the third largest cohort of international students at Trinity from outside the EU. As Ireland’s oldest and highest-ranking university, Trinity strives to educate global citizens who will shape the world’s future.

English Language Support

All modules on this programme are taught in English but students can avail of Trinity’s extensive language-learning facilities. The Centre for English Language Learning and Teaching focuses specifically on the development of student’s academic English skills to support their current and future university studies.

All students can enroll on the "English for Academic Purposes" course. www.tcd.ie/slscs/english/trinity_in-sessional_programme/index.php

4 Years at Soochow + 1 Year at Trinity

Application Requirements

Your application should consist of the following documents:

— Cover letter outlining your interest in the degree.
— Curriculum Vitae.
— Transcript of academic results.
— Copies of degree certificates.
— Contact details of two academic references.
— English language certificate

Admission Requirements

— A minimum GPA of 3.0/4.0, approximately equivalent to an overall grade of 70-75%, is required for entry.
Programme Information

The MSc in Science of Energy consists of six taught modules worth 10 ECTS each. These are structured around an across-cutting introductory module. The introductory module is designed to furnish students with all of the basic physics, chemistry and engineering concepts that are required to become an “Energy Scientist”. These basics are complemented by essential "Economics of Energy" and "Principles of Energy Policy".

Now with the ability to understand and analyse the competing aspects of all of the essential science, engineering and economics pertinent to the energy discipline, the students proceed to five specialised technically orientated core modules; “Conventional Energy Sources & Technologies”, “Power systems, power electronics and electrical systems”, "Sustainable Energy Sources & Technologies I & II", and "Managing the impact of Energy Utilisation".

With these modules completed and examined in the months September to April, students proceed to a 15 week research project worth 30 ECTS in a leading research laboratory or in industry in the months of May-August.

Introduction to Energy Science
— Content and Philosophy of Energy Science
— Environmental Impact of Energy Utilisation
— Economics of Energy & Energy Regulation & Policy
— Thermodynamics, Reaction Kinetics and Heat Transfer
— Introduction to Electromagnetism
— Materials for Energy Applications

Core 1: Conventional Energy Sources & Technologies
— Fossil fuels, Combustion, Engines & Emissions
— Nuclear Reactions, Materials & Reactor Technology

Core 2: Sustainable Energy Sources & Technologies
— Electrochemical Cell Technology I
— Photovoltaics
— Carbon Dioxide Capture & Storage

Core 3: Electric Power Generation & Distribution
— Power Systems, Analysis & Smart Grids
— Electric Machines & Power Electronics

Core 4: Sustainable Energy Sources & Technologies II
— Biofuels, Biomass & Hydrogen
— Wind Energy Generation & Storage

Core 5: Managing the Impact of Energy Utilisation
— Raw Materials & Natural Resource Management
— Techniques for Quantitative Analysis & Characterisation of Energy Critical Raw Materials
— Nuclear Safety & Environmental Impact

Research Project in Academia or Industry

Note:
Programmes and programme titles may be subject to change.

Application Deadline

Please check individual programmes for application deadlines. Generally students must submit their application to Trinity by 30 June at the latest but early application is strongly advised.

Fees

The fee levels for the current academic year are available here. Students on this programme may be eligible for a scholarship.
Trinity is committed to ensuring that all international students have a positive experience while preparing to make the move to Dublin.

Partnerships students will be prioritised for Trinity approved accommodation provided they apply by 1 July. More information on accommodation options while at Trinity can be found here: www.tcd.ie/accommodation
Student Life at Trinity

Immerse yourself in a broad range of sports clubs and student societies and get a real sense of the ‘Trinity Experience’.

Your first days at Trinity

Freshers’ Week
Trinity offers orientation to all new postgraduate and undergraduate students prior to the start of the academic year during a week known as Freshers’ Week. It is a chance for you to meet your classmates, attend information sessions and sign up to one of many clubs and societies at Trinity. Find out more at: www.tcd.ie/students/orientation

A specific International Postgraduate Student Orientation takes place before teaching commences. Details are available at: www.tcd.ie/students/orientation/postgraduates

Trinity Education
After the excitement of Freshers’ Week, teaching term starts, and you will be settling into your course. Most of your classes at Trinity will be a mixture of lecturers, tutorials and some practicals. Tutorials are less formal and usually take place in smaller groups, giving you a chance to delve deeper into the studied topics with your classmates and teaching assistants.

Trinity in Twelve Weeks
The “Trinity in Twelve Weeks” virtual programme aims to continue your orientation during your first semester and help your transition to university life. The programme has a new theme every week, from study and exam skills to how to look after yourself while at university. Your mentors will be in touch with you every week to let you know what the week’s theme is and to arrange events and activities. Find out more at: www.tcd.ie/students/orientation/twelve-weeks

Trinity Clubs & Societies
As a student at Trinity, you will be able to choose from over 50 sports clubs including aikido, basketball, Gaelic football, surfing, hockey, rugby, soccer, table tennis, badminton and many more. You will also automatically be a member of our Sports Centre. The Sports Centre is where the majority of our fitness classes and programmes take place, 7 days a week. Facilities include a 25-metre swimming pool, climbing wall and a fully equipped gym. www.tcd.ie/sport

At Trinity, we have 120 student societies which constitute some of the most dynamic and active university student societies in Ireland, allowing you to develop new skills or put your existing ones into action with everything from the International Student Society to the Zoological Society. Find out more at: www.trinitysocieties.ie
Career Opportunities
Your Career Journey at Trinity

Our graduates are highly sought after by employers across all sectors and many have gone on to successful careers around the globe. See below for just a few examples of the diverse organisations that have recruited Trinity graduates in recent years. The Trinity Careers Service supports students in exploring their career ambitions for the future and planning how to achieve them. Find out more about the Careers Service at: www.tcd.ie/careers

Did you know?
Trinity is a Top 100 University for Graduate Employability
QS GRADUATE EMPLOYABILITY RANKING 2022

Trinity is 1st in Europe for producing entrepreneurs for the 7th year in a row
PITCHBOOK UNIVERSITIES REPORT 2021

Trinity has over 500 industry partners including Microsoft, Google, IBM, Pfizer, Roche, AIB and many more.

Where some of our Trinity graduates are now employed
International Student Supports

Trinity is an exciting place, full of opportunities to learn, make friends, and experience new things.

While Trinity delivers world class courses, it is not just about your academic development: we also want Trinity to be a place where you can develop socially, responsibly, culturally and personally.

Full list of services available to view at: www.tcd.ie/study/international/student-experience/supports-services.php

We have many specific support services for international students including:

**Talk to our students**
Do you have a question about student life, the campus or living in Dublin? Connect with our students at: www.tcd.ie/global/talktostudents

**Airport Meet and Greet Service**
New international students arriving at Dublin Airport can avail of this free service.

**English for Academic Purposes**
Trinity offers both pre-sessional and in-sessional English language programmes. Find out more at: www.tcd.ie/silcas/english

**New to Dublin Programme**
Student Ambassadors run this programme aimed at postgraduate students, covering everything from Dublin grocery shopping and public transport to making friends and adjusting to Dublin culture.

**Trinity Global Room**
The Global Room team provides guidance and support to international students on a wide range of issues including immigration, accommodation and all aspects of life at Trinity. www.tcd.ie/study/international/student-experience/global-room.php

For more information, please contact: tcdglobalroom@tcd.ie

**Visa and Immigration**

Some, but not all, non-EU/EEA students require an entry visa for Ireland. We advise students to apply for their visas early.

To check if you need a visa, please visit the Immigration Service Delivery at the link below: www.irishimmigration.ie/coming-to-study-in-ireland

Find out more at: www.tcd.ie/study/international/arriving-in-ireland/visa-immigration

**Did you know?**

Trinity is ranked 12th Most International university in the world

TIMES HIGHER EDUCATION RANKING 2022
If you have any questions about studying at Trinity, please get in touch with us.

www.tcd.ie/study→

The Trinity Global team is dedicated to helping international students and we would be delighted to answer your questions. Please contact us at:

Trinity Global
East Theatre,
Trinity College Dublin,
the University of Dublin
Dublin 2, Ireland.

www.tcd.ie/study
international@tcd.ie

If you have further questions about your application status you can contact the Applications and Admissions Team in Trinity’s Academic Registry.

Academic Registry
Trinity College Dublin, the University of Dublin,
Watts Building,
Dublin 2, Ireland.

+353 (0) 1 896 4500
www.tcd.ie/academicregistry
academic.registry@tcd.ie

Join the Trinity Community

Trinity’s Dedicated Channels In-Country

China
Bilibili: space.bilibili.com/695604784→
WeChat: weixin.qq.com/r/gElJKWXEcTqOrSHy9X2S→
Weibo: m.weibo.cn/u/3905092477→

India
Facebook: www.facebook.com/trinitycollegedublinindia→
Instagram: www.instagram.com/trinitycollegedublin_india/→

The Americas
Future Applicants from the Americas please follow our dedicated Instagram Account:
www.instagram.com/tcdamericas→

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