Trinity College Dublin
Coláiste na Tríonóide, Baile Átha Cliath
The University of Dublin

Postgraduate Diploma
in Applied Economics and Big Data

Students will study a wide range of cores modules on this one year programme, and will be equipped with state-of-the-art applied economics methods.

81ST
World Ranking
(QS World University Rankings 2024)

81st QS WORLD UNIVERSITY RANKINGS 2024

16TH
Most International University in the World
(Times Higher Education Ranking 2023)

1ST
in Europe for producing Entrepreneurs for the 6th year in a row
(Pitchbook Universities Report 2020)

The **Postgraduate Diploma in Applied Economics and Big Data** is a one-year full-time programme, providing a unique learning opportunity to master the future of economic analysis. Students on this programme will bridge the gap between academic knowledge and real-world application. With our focused curriculum, students will learn advanced quantitative and statistical skills essential for harnessing Big Data in applied economics.

This postgraduate course is ideal for students with minimal quantitative experience but who wish to learn from leading experts and engage with cutting-edge techniques in micro and macroeconomics, development economics, financial economics and quantitative text analysis.

Graduates of this programme will be equipped with valuable programming skills in Python, R, and STATA, enabling them to not only understand the world of Big Data, but also be able to influence it through informed economic strategies. This programme will enable graduates to become economic experts in a rapidly evolving digital world.

This Postgraduate Diploma will provide you with the skills and expertise to make impactful decisions and to meet the growing demand for Big Data analysts in applied economics. This programme will equip you to be at the forefront of the digital revolution in economics.
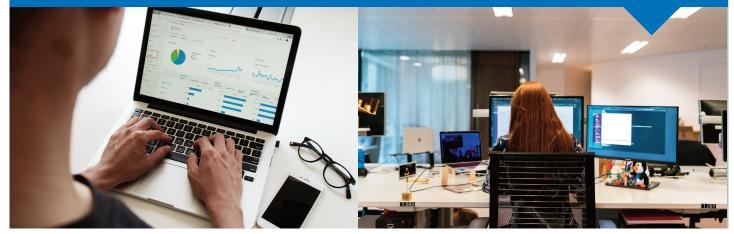
www.tcd.ie

Course description

The one-year full-time programme covers a wide range of core modules aimed at equipping students with state-of-the-art applied economics methods. The programme will have a single intake each year, starting in September.

In their first semester, students will take modules in microeconomics, macroeconomics and econometrics. In their second semester, students will have the chance to choose various elective modules, drawn from different fields of theoretical and applied economics as well as modules in machine learning and quantitative text analysis.

All modules are taught around weekly lectures and tutorial sessions and assessed with applied continuous assessments (no exams or final dissertations are required). To maximize the learning experience, we prioritize small classes and focus on individual attention through seminars and tutorials. Students are expected to bring their own laptops (Mac/Windows/Linux) for use in lectures and tutorials throughout the course. Tablets are not suitable for this course.

The course comprises 13 modules, four of which are compulsory: Introduction to Big Data for Economists, Introduction to Statistics and Regression Analysis, Microeconometrics and Macroeconometrics. Students will also choose 6 electives from the following modules: Spatial Economics and Big Data, Machine learning for economists, Text analysis for central banking, Impact Evaluation and Big Data, Labour markets and Big Data, Development Economics and Big Data, Environmental Economics and Big Data, Financial Markets and Big Data and Quantitative Text Analysis for Social Scientists.

About the Economics Department & the School of Social Sciences and Philosophy

The Economics department is long considered the strongest economics department in Ireland and is ranked in the top 150 worldwide (QS rankings 2022). The department is housed in the third largest School in Trinity College, a school with a reputation for high-quality teaching and research excellence. Our graduates are highly sought after by private sector employers, for example in banking, finance and consulting. Many of our graduates also go on to pursue

successful careers in government, multinational organisations, think tanks and non-governmental organisations who value the analytical and problem-solving skills our graduates possess.

What makes this course special?

This Postgraduate Diploma has been specifically designed to prepare graduates to be at the forefront of the digital revolution in economics. Our one-year full-time Postgraduate Diploma in Applied Economics and Big Data provides a unique learning opportunity to master the future of economic analysis, to transform your career and to shape the digital economy.

For more information

For general queries about the course please contact the Course Administrator.
E-mail: dip.aebd@tcd.ie

For academic queries please contact the Course Director
Professor Davide Romelli.
E-mail : romellid@tcd.ie