



Career Opportunities with a Degree in Mathematics

SPD
Careers
Service

Choosing a career involves more than just finding out what is open to you. Knowledge about yourself is vital to the process of making a career choice. It is useful to start by examining your strengths, weaknesses, interests, abilities and skills in order to relate career options to you. The Careers Service has resources to help students in their self-assessment and career planning, including psychometric tests and paper and online resources on www.spd.dcu.ie/careers

Your skills and qualities in the employment market

Mathematicians can use mathematical principles to solve problems in all areas of the sciences, technology, social sciences, industry and business. Hence, careers following a maths degree can vary widely. Employers know that students with a mathematics degree develop skills in many areas that are highly sought after, such as: *Problem solving, thinking logically, IT skills, analysing information, numeracy, writing and reading articulately, making sound judgements and solving quantitative problems.*

Possible Career options

Statistician	Accountant	Actuary
Risk Analyst	Tax Analyst	Research Analyst
Investment Analyst	Database analyst	Cryptography and security
Academic	Trader	Financial planner
Banker	Logistics Manager	Management Consultant

Many of the positions listed above would require additional qualifications, Specific career information is available on <http://www.careerdirections.ie/>

Sample Job Advertisements

Below are some jobs descriptions that may suit Mathematics graduates/students (note, these jobs are not currently available and are shown for illustration purposes only).

Statisticians, Civil Service, Cork/Dublin. Honours graduates in maths, statistics, economics etc. Opportunities exist in the Central Statistics Office and other government departments. Ref 07/09

Patent Examiners with The Patent Office. A degree in Mathematics, Science or Engineering required. [Annual recruitment] Ref 07/09 .

Cryptology: crypto professionals are in demand both within the public and private sector. Within the private sector, demand is high within financial organisations. Companies offering encryption, digital data services and authentication tools hire crypto and security practitioners.

Further Study opportunities

Ireland

Postgrad. Dip. Actuarial Science UCD
M.Sc in Business Analytic UCD
M.Sc. Financial and Industrial Mathematics DCU
M.Sc. Mathematical Physics NUIM
M.Sc Mathematics, Statistics and Applied Maths NUIG
M.Sc. Statistical Science and operational Research QUB
H.Dip. Statistics NUI and UCC

Further Study opportunities

UK

M.Sc Bioinformatics Essex University
 M.Sc in Statistics and Econometrics
 MSc in Mathematics of Cryptography and
 Communications, Royal Holloway
 University London.

Check out www.postgradireland.com
www.qualifax.ie
www.prospects.ac.uk

Postgrad. Courses SPD BA Maths graduates 1996-2008

Below is a list of postgraduate courses taken by previous SPD BA Maths graduates. A number of B.Ed. graduates with Maths have completed an M.Sc. in Cryptology in Royal Holloway University London (RHUL)

Course	No
PGDE Post-primary Irl	10
PGCE Prim UK	13
PGCE Post-primary	3
PGCE SPD	3
MA Business Studies	1
H.Dip. Youth and Community Work	1

Useful websites

Statistics

www.maths.nuim.ie/isa/index.html
 Irish Statistical Association
www.ria.ie
 Royal Irish Academy
<http://www.rss.org.uk/>
 Royal Statistical Association
 Careers with Statistics
<http://www.math.jmu.edu/stat/PDFs/brochure.pdf>

Useful websites

Research

Irish Economics Association

Economics and Social Research
 Institute (**ERSI**)

<http://www.esri.ie/>

National Educational and Research
 Network

<http://www.heanet.ie/>

Research Ireland

<http://www.euraxess.ie/Default.aspx>

Actuaries

<https://web.actuaries.ie/>

<http://www.actuaries.org.uk/careers>

Financial and Investment Careers

<http://students.efinancialcareers.co.uk/>

Irish Banking Federation

<http://www.ibf.ie/>

Information Technology

Enterprise Ireland Technology
 Directory

<http://www.enterprise-ireland.com/Technology+Ireland/>

Cryptology and Internet Security

International Association for

Cryptological Research

<http://www.iacr.org/jobs/>

US Government Information Security:
 careers in cryptology

http://www.govinfosecurity.com/article_s.php?art_id=1500&opg=1

Management Consultancy

Irish institute of Management
 Consultants

<http://www.imca.ie/home/default.asp>

Management Consultants Association

<http://www.mca.org.uk/home>

