

MATHEMATICS & STATISTICS

Overview

The analytical and problem-solving skills offered by mathematics and statistics graduates put them in high demand across many different job sectors. Many graduates enter careers in accountancy, financial management, IT and data analysis and these job roles can be within large blue-chip organisations, big city finance companies, pharmaceutical industries, IT & engineering companies, start-ups and within the public sector.

Roles

The following profiles are available on Prospects (www.prospects.ac.uk).

- [Actuary](#)
- [Aerospace Engineer](#)
- [Medical Statistician](#)
- [Chartered Accountant](#)
- [Cyber Security Analyst](#)
- [Data Analyst](#)
- [Financial Risk Analyst](#)
- [Government Statistician](#)
- [Health Informatics Management](#)
- [Intelligence Analyst](#)
- [Investment Analyst](#)
- [IT Consultant](#)
- [Management Consultant](#)
- [Management Consultant](#)
- [Mathematical Modelling Consultant](#)
- [Medical Statistician](#)
- [Operational Researcher](#)
- [Pharmaceutical Statistician](#)
- [Project Manager](#)
- [Scientific Researcher](#)
- [Tax Adviser](#)
- [Transport Planner](#)
- [Underwriter](#)

Many of the job roles above can be found in different areas of work. For example, a Data Analyst could be analysing huge data sets for a pharmaceutical company testing the effectiveness of a new drug or could be

working for an engineering company working out how to improve fuel consumption for their new hybrid car. Data analysis and maths modelling skills are also wanted by insurance and weather consultancies looking to manage risk and by the Security Services such as Mi5 and GCHQ wanting to check for patterns in information gathered.

Finding Opportunities

Many of the job roles listed above can be found advertised on the main graduate career websites:

- targetjobs.co.uk (graduate recruitment sector overview including graduate schemes and placements and internships)
- prospects.ac.uk (graduate recruitment sector overview including graduate schemes and placements and internships)
- efinancialcareers.co.uk (careers information about jobs in the city and vacancies)
- gradcracker.com (Science, Technology, Engineering and Maths grad roles and placements)
- jobs.nhs.uk (careers information about jobs in the NHS and vacancies)
- [Intelligence/security Jobs \(careersinbritishintelligence.co.uk\)](http://Intelligence/security_Jobs_(careersinbritishintelligence.co.uk)) (job role descriptions and vacancies within this sector)
- employ-ability.org.uk (an organisation that supports students & graduates with a disability or long-term health condition into placements or employment with large graduate recruiters).

Building Experience

Within your degree programme you are able to take a year-long professional placement or a summer placement – talk to your tutor or Placement Co-ordinator if this interests you. Many of the large graduate recruiters offer Insight Days (mainly for first year students) and summer work experience (typically for second year students) and these are advertised on the websites listed above. Having relevant experience will not only help you stand out to employers but it can also highlight career areas that interest you.

If you are thinking about teaching as a career, you might want to volunteer for the University's [Students in Schools](#) scheme.

Exploring Further

Many of the websites listed above provide detailed job profiles that can give you an excellent insight into what the job would actually entail. If you would like to explore these in more depth and read case studies of mathematics and statistics graduates working in a range of roles, then have a look at the professional bodies websites:

- Institute of Maths and its Applications – [Careers Site www.mathscareers.org.uk](http://www.mathscareers.org.uk)
- Royal Statistics Society – StatsLife <https://www.statslife.org.uk/careers>

