

Mathematics & Statistics

As a mathematician or statistician you'll use your problem-solving, analytical, and technical skills to help businesses in a range of sectors, from finance to government. Your interpretations could be used in anything from clinical trials, to climate predictions, to financial forecasting.

You could end up in a management role, leading a team, or become self-employed as a consultant or financial adviser. You could also go on to further study, teaching or academic research, or work as a data scientist.

The impact you could make

- > Use your mathematical modelling and statistics skills to advise on public sector finances in the Government's actuary department.
- > Analyse climate change patterns to help predict the next global weather trends.
- > Check quality control standards for clinical drug trials.

What you could study

- > Pure mathematics
- > Applied mathematics
- > Real analysis
- > Statistics
- > Mathematical modelling
- > Probability and data science
- > Differential equations
- > Dynamics and motion
- > Bayesian statistics
- > Medical statistics
- > Stochastic modelling
- > Scientific computing
- > Machine learning

Subjects it's useful to have studied first

Some mathematics and statistics courses or apprenticeships will have requirements for previous qualifications in certain subjects. Entry requirements vary, so always check with the provider.

Maths/Further maths

Physics

Chemistry

Biology

Economics

Computer science

Hard skills you'll develop

- ✓ Economics and finance
- ✓ Programming languages
- ✓ Project management
- ✓ Data analysis
- ✓ Statistics

Soft skills you'll develop

- ✓ Communication
- ✓ Management
- ✓ Research
- ✓ Planning
- ✓ Innovation



Available jobs

67,169
vacancies in
the past year

5.80% growth over
next eight years



Average salary

£43,077

Up to £76,842

Career options

Banking and finance

Chartered accountant

Bank clerk

Investment analyst

Insurance underwriter

Business consulting and management

Actuary

Financial manager

IT, construction, and science

IT manager

Software developers and
programmers

Quantity surveyor

Teaching and research

Research manager

Teacher – further/higher
education

Getting in: Entry requirements

Find out more about what you'll need to study accounting and finance at university or as an apprenticeship.

Average requirements for undergraduate degrees

Entry requirements differ between university and course, but this should give you a guide to what is usually expected from mathematics and statistics applicants.

