



**Brunel**  
University  
of London

# Online MSc Data Science and Analytics





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**Be bolder  
with Brunel**

Brunel University of London is built for those who think differently. We place excellence, innovation, and entrepreneurial thinking at the core of everything we do. You won't just earn a qualification — **you'll become a pioneer.**

### **A home for the world's students**

With learners from over 155 countries, Brunel is proudly global. Our teaching reflects diverse perspectives, and our online community gives you space to connect, collaborate, and thrive.

### **Research that breaks ground**

Brunel ranks in the UK's top 20% for collaborative research (Knowledge Exchange Framework 2024). You'll learn from experts tackling real-world challenges and shaping what's next.

### **A launchpad for your career**

Our courses reflect a commitment to helping you move your career forward. We collaborate with industry professionals and leading academics to make sure you don't just learn something new—you put it into action.



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# Brunel by the numbers

# 16,000+

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students from over 150+ countries

# #1

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in the UK and 4th in the world for  
'International Outlook'  
(Times Higher Education 2024)

# Top 40

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of UK universities globally  
(QS World Rankings 2026)

# Top 150

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Computer Science department in the world  
(Shanghai Rankings 2024)

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# Why Brunel?

Our world-class teaching with industry-focused learning provides academic depth and practical expertise.

Access cutting-edge facilities, strong research in intelligent data analysis, and opportunities for collaboration with industry partners.

Want to thrive in data science and analytics? This online MSc blends core technical topics with real-world practical applications across business, science, and social domains.

With flexible study modes, optional placements, and exposure to industry experts, the programme is ideal for those seeking future-proof skills to enhance their career.



**8 Brunel Computer Science academics ranked in the top 2% of scientists in the world (Stanford/Elsevier 2024).**



# A degree that looks different



## Global recognition

Earn your degree from a top 25% UK university with worldwide recognition.



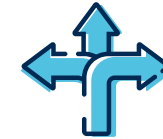
## Cutting edge

Build an expert CV with technical and ethical insights from our future-focused curriculum.



## Learn for real life

Gain hands-on experience with real projects and tools you'll use every day.



## Flexible first

Decide how and when you study with our on-demand digital learning platform.



## Get rewarded

Join a network of highly skilled graduates that consistently earn above average salaries.



## World-class technical training

Put theory to practice with tools including Hadoop, Spark, Tableau, R, Python, and SAS.



## Connect worldwide

Become part of the 154,000-strong Brunel alumni community.



## Support at every step

Tap into career guidance and digital tools that help you thrive from day one.

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# Invest in your next step



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## Start dates

Pick a start date that fits your schedule. Apply on a rolling basis for upcoming **January, May, or September** intakes.



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## Location

Your learning is entirely online through our virtual learning environment, powered by Canvas.



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## Duration

Choose full-time or part-time study and finish in one or two years.



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## Fees

The total cost for this degree is **£11,520**.



# Visualise your future in data

Global data is growing at rapid speed, and so is the need for professionals who can cut through the noise. Unlock the power of data with our online MSc in Data Science and Analytics. Blending hands-on practical training with academic theory taught by some of the world's leading academics, you'll be equipped with the skills to turn complex datasets into insights that drive innovation across sectors including retail, finance, healthcare, tech, and government.

From day one, you'll work with cutting-edge technologies like Hadoop, Spark, Tableau, Python and R and acquire skills in quantitative analysis, data visualisation, big data processing, machine learning and more, leaving you ready to make an impact and shape your future in an increasingly data-driven world.

**8**

modules

**1**

final dissertation

**180**

total credits

**20**

scheduled learning hours per module

**130**

hours of self-study per module

**40**

full-time study hours per week

**20**

part-time study hours per week



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# We take flexible study seriously

When life gets busy, your Brunel studies move with you. While there are a few key dates to remember, the pace is yours to set. Here's an example of what your timeline would look like for the upcoming intake.

1

## Secure your spot

Get your application in before the window closes. We recommend you submit a few weeks in advance for ample processing time.

3

## Teaching begins

Access your first modules through our virtual learning environment, Canvas.

5

## Dissertation

Dedicate your time to your dissertation and any remaining coursework.

2

## Induction week

Kick off your studies with Induction Week. It's your chance to get set up and feel ready to begin.

4

## Module learning

Build your foundational knowledge by working through your modules. You can complete these in any order.

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## Congrats, grad!

Put your diploma to work and land your next big job. Feel supported by our career services team and utilise FutureLearn's helpful career guides.

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# Modules

The modules cover key concepts, theories, and practical applications central to your subject area, challenging you to think critically and apply your learning in real-time.

## Quantitative Data Analysis

Develop knowledge and skills of the quantitative data analysis methods that underpin data science.

## Modern Data

Understand industry-standard processes and create your own tailored analysis plans for data preparation, exploration and management.

## Data Visualisation

Learn how to design and implement effective visualisation methods, algorithms and techniques to generate insight from data.

## Research Project Management

Formulate research in response to a problem, using your critical thinking, evaluation and practical skills to shape the outcome.

## Ethics and Governance of Digital Systems

Identify legal, social and ethical concerns within the digital landscape, and reflect on the impact of digital technologies in the workplace.

## Machine Learning

Develop the reflective and practical understanding necessary to extract value and insight from data sets using statistical learning.

## Digital Innovation and Strategy

Support businesses in driving digital change, applying and critically assessing theory and practice.

## High Performance Computational Infrastructures

Develop the skills for working effectively with the large-scale data storage and processing infrastructures that underpin data science.

## Dissertation

Develop and present a solution to a research problem, drawing on insights from previous modules to produce a full report.



**Modules cover key concepts, theories, and practical applications central to your subject area, challenging you to think critically and apply your learning in real-time.**



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# Learning that looks different

We know your time is valuable, so we make learning flexible and engaging. You'll connect theory with real-world skills through interactive tools and practical tasks that fit around your life and help you reach your goals.



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## Focused content

Each module gives you a clear framework to grasp core concepts, understand technical concepts, and see how everything fits together.



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## Practical assessments

From essays to summative exams, you'll apply what you've learned through practical tasks that reflect real-world challenges.



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## Interactive workshops

In small, interactive sessions, you'll test ideas and develop practical skills with the support of the Brunel online community.



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## Online tools

Online slides, exercises, and discussion boards help you stay engaged and supported throughout each module.



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## Curated reading lists

You'll have access to curated core and recommended texts that support your studies and help you explore topics in greater depth.



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## Culmination project

A final dissertation brings everything together and allows you to explore a topic that matters to you.

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# In-demand data skills that drive innovation



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## Data science

Explore key concepts from the disciplines that define modern data science.



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## Data analysis

Learn how to turn a critical understanding of data into clear insights for industry innovation.



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## Strategic tools

Apply data science tools and techniques to problems in social, business and scientific domains.



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## Digital problem-solving

Address industry challenges with applied data science and evaluate its effectiveness.



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## Technical research

Conduct, report on and evaluate research related to problems and challenges in data science.



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## Professional agility

Demonstrate professional competence in data science and analytics.



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# Make your next step the easiest one yet.

Start by completing our online application form and uploading your supporting documents. Once submitted, our admissions team will review your application and keep you updated throughout the process.

## Academic requirements

A 2:2 or above UK Honours degree or equivalent internationally recognised qualification from a scientific, engineering, or numerate subject.

We welcome applicants with other qualifications and industrial experience (relevant to the subject area), who will be assessed on an individual basis.

## Language requirements

International students may be required to submit proof of English proficiency through one of the following methods:

- IELTS: 6.5 (min 6 in all areas)
- Pearson: 59 (59 in all subscores)
- BrunELT: 63% (min 58% in all areas)
- TOEFL: 90 (min 20 in all)

See the full list of approved tests [here](#).

## Application requirements

When you apply, you'll need to provide a copy of your degree transcript and/or certificate (for international students, a transcript is highly recommended), along with a personal statement.

Please note that additional documents may be required to complete your application.



**Apply quickly and easily  
through our online portal.**

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# Online MSc Data Science and Analytics

**High-demand skills for effective data visualisation.**

**(+44) 203 535 1404**  
**study@online.brunel.ac.uk**

The information in this brochure is correct at the time of publication. It is issued for the general guidance of students starting their online course with the University in January 2025 and does not form part of any contract. The University will use all reasonable endeavours to deliver the course of study in accordance with the description applied to it in the University's brochure for the academic year in which you begin the programme. However, the University reserves the right to:

- Make reasonable variations to the course (including, without limitation, the content and syllabus of the course, including changes to individual modules).
- Discontinue the course or combine the course with another course, especially if it has insufficient numbers of students to be viable, if the University considers this reasonably necessary. If the University discontinues the course, it will use reasonable endeavours to provide you with a suitable alternative.

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