

Undergraduate study

Scientific Computing



Why study scientific computing at Bristol?

Hone your skills in programming and data science with our new degrees that allow you to study either chemistry or physics 'with Scientific Computing.' Scientific computing is an interdisciplinary field that uses computer science, data science and digital technology for state-of-the-art scientific problem solving.

All students will develop skills in coding, high performance computing, machine learning, and virtual/augmented reality, alongside the same core science studied by single-honours students.

In chemistry, you will study fundamental concepts in inorganic, organic and physical chemistry, as well as applications of computing in analytical, environmental, materials and theoretical chemistry.

In physics, you will gain a comprehensive grounding in classical and quantum physics and will develop the mathematical and computational skills needed to solve problems ranging from the quantum realm to galaxy formation. For those wanting to gain more applied computing experience we offer an option of a year spent working in industry.



Career advantage

Along with a solid foundation in science, give your CV a boost by learning the applied computer skills modern careers in research and industry require.



Apply your knowledge

Gain expertise in programming, data analysis, machine learning and more as you use these skills in practical ways alongside your research.



Interdisciplinary excellence

Bristol is a world-class centre for supercomputing, data science and data-intensive research. Our scientific computing degrees bring together experts from across the University focused on applying the latest computational techniques to key scientific problems, such as changes in the earth's atmosphere, the reactions of molecules or how galaxies are formed.

Career opportunities may include:

- scientific research
- chemical industry
- engineering industry
- computing
- data science
- finance.

Courses

Chemistry:

BSc Chemistry with Scientific Computing
MSci Chemistry with Scientific Computing

Physics:

BSc Physics with Scientific Computing
MSci Physics with Scientific Computing
MSci Physics with Scientific Computing with
Industrial Experience

Photography

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This leaflet contains information for students planning to start university in autumn 2021. We have made every effort to ensure all details are correct at the time of going to press (May 2020). However, since this information is subject to change, you are advised to check the University's website, bristol.ac.uk/ug-study for the latest updates. Any sample units listed are indicative and offerings may change due to developments in the relevant academic field. Unit availability varies depending on staffing, student choice and timetabling constraints.

Find out more

Entry requirements, course structure and units
bristol.ac.uk/ug2021-scicomp



You'll be taught by experts
in your scientific discipline as
well as computing experts from
across the Faculty of Science.

