School of Chemistry
Undergraduate
Degree Programmes

www.cardiff.ac.uk/chemistry
Cardiff University
School of Chemistry

WORLD LEADING RESEARCH

ACADEMIC EXCELLENCE

HIGH EMPLOYABILITY

TRANSFERABLE SKILLS

www.cardiff.ac.uk/chemistry
91% of our graduates were in employment and/or further study six months after graduating.

Friendly Supportive environment
Modern teaching laboratories

Student Bloggers
From study tips to where to eat, to societies, weekend trips and where to get your books, our student bloggers are real students talking about the reality of being a student at Cardiff.
Don’t miss their latest blogs for the chance to find out more about what it’s like to study and live in Cardiff.

www.cardiff.ac.uk/studentbloggers
Discover the **Cardiff Experience**

**A leading university . . .**

- You’ll be part of a Russell Group university - one of the UK’s world-class universities.
- You can choose from more than 350 degree programmes. The Cardiff University degree is known and respected worldwide with a substantial number accredited by the professions and other external bodies.
- You’ll benefit from outstanding teaching in a research-led environment - Cardiff is ranked in the UK’s top 5 universities for research quality.
- Staff include a Nobel Laureate and numerous Fellows of the Royal Society and other prestigious institutions.

**in an outstanding city . . .**

- You’ll live in a friendly, compact and safe city with all your study, living and leisure needs within walking distance.
- Your money will go further at Cardiff with capital city attractions at provincial prices - Cardiff is amongst the most affordable/cost effective student destinations in the UK.¹

**with able and motivated students . . .**

- You’ll be at a first choice university where demand for places is strong.
- You’ll be studying in an environment with able and motivated students who have high grades at A-level or equivalent.
- You’ll be at an international university with students from more than 100 countries who have excellent career prospects.

**who have excellent career prospects.**

- You can be confident of your future prospects - 94.8% of our students were employed or had entered further study within six months of completing their studies.²
- You’ll be in demand - Cardiff is among the top 25 universities targeted by employers seeking high calibre graduates.³

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Notes

1. Research by Natwest 2017
2. HESA Destination of Leavers Survey 2016
3. High Fliers Research The Graduate Market 2017

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**Cardiff Connected**

www.cardiff.ac.uk

- @cardiffuniug
- facebook.com/Cardiffuniug
- instagram.com/cardiffuni
- youtube.com/user/cardiffuni

**Contact us**

For students from the UK and EU:
Tel: 029 2087 4455
Email: enquiry@cardiff.ac.uk

For students from the rest of the world:
Tel: +44 (0)29 2087 4432
Email: international@cardiff.ac.uk
Welcome

The School of Chemistry offers a range of flexible and diverse degree programmes to suit the different expectations and aspirations of today’s students.

This brochure provides an introduction to the School of Chemistry and the undergraduate degree programmes that we offer. I hope you will find it a useful guide to help you in your choice of both degree programme and university.

The members of staff in the School of Chemistry are engaged in research that aims to tackle the societal challenges of the 21st century. They possess experience covering all the main areas of chemistry and its interfaces, with other scientific disciplines and technologies. All of this expertise is brought to bear on our degree programmes, which offer a learning experience that is fully embedded in modern molecular science.

Our student body is drawn from the UK, Europe and further overseas. We offer our students the opportunity to gain a valuable and valued qualification, which will provide a sound basis for their future development.

There has never been a more exciting time to study chemistry. In this close-knit and friendly environment we hope you will find your university experience in the School of Chemistry intellectually stimulating, enjoyable, informative and highly beneficial to your future career.

We look forward to receiving your application and for you to become a part of our community.

Professor Damien Murphy
Head of School

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This brochure will provide you with more details of our programmes. We hope that they will give you more than just a flavour of what we have to offer you. However, we are always ready to answer any questions you may have, by post, telephone or email, or when you come to Cardiff for a visit. You will find the appropriate contacts at the end of this brochure.

Important Legal Information
The contents of this brochure relate to the Entry 2019 admissions cycle and are correct at the time of going to press in June 2018. However, there is a lengthy period of time between printing this brochure and applications being made to, and processed by us, so please check our website [www.cardiff.ac.uk] before making an application in case there are any changes to the course you are interested in or to other facilities and services described here. Where there is a difference between the contents of this brochure and our website, the contents of the website take precedence and represent the basis on which we intend to deliver our services to you.

Any offer of a place to study at Cardiff University is subject to terms and conditions, which can be found on our website [www.cardiff.ac.uk/offerterms] and which you are advised to read before making an application. The terms and conditions set out, for example, when we might make changes to your chosen course or to student regulations. It is therefore important you read them, and understand them.

If you are not able to access information online please contact us:
Email: enquiry@cardiff.ac.uk
Tel: 029 2087 4455

Your degree: Students admitted to Cardiff University study for a Cardiff University degree.
The Principality (Millennium) Stadium nestles in the heart of the city, and is home to numerous sporting events and concerts throughout the year.
Cardiff is a thriving and attractive city, which is widely recognised as an outstanding place in which to live and study. It combines all the advantages of a compact, friendly and inexpensive location, with the cultural and recreational facilities of a modern capital city.

Cardiff offers everything from the excitement of the city to the peace and tranquillity of the nearby coast and countryside. With its distinctive character, good quality of life, and growing national and international reputation, it hosts many high-profile cultural and sporting events, including international rugby, soccer, cricket and motor sport.

When it comes to entertainment, Cardiff is well-equipped to satisfy student needs. There is a multitude of cafés, pubs and nightclubs. The city is home to the world-renowned Welsh National Opera, it boasts prestigious concert venues such as the Wales Millennium Centre, St David’s Hall and the Motorpoint Arena, as well as the iconic Principality Stadium, the National Museum Wales, several theatres and the historic Cardiff Castle.

Cardiff is the location for award-winning television productions, including Doctor Who, Sherlock, Torchwood and Casualty.

The city is one of the UK’s best shopping destinations, with St David’s Dewi Sant retail centre standing alongside pedestrianised shopping streets, indoor and outdoor markets, and a fascinating network of glass-canopied Victorian and Edwardian arcades.

Cardiff also has more urban green space than any other UK city, and offers easy access to the countryside, coast and mountains.

Lively, elegant, confident, cosmopolitan and ambitious are all words readily used to describe modern-day Cardiff. Together, the city and the University provide students with the ‘Cardiff Experience’, a lifestyle our students remember long after graduation.

Don’t just take our word for it . . .
“Cardiff is one of Europe’s youngest capital cities – small enough to be friendly and big enough to offer the best of living in a major city.”
The Complete University Guide 2017

Come and see for yourself . . .
Cardiff benefits from excellent road and rail links with Britain’s other major towns and cities. London, for example, is two hours by train, and the M4 links both the West and South of England, as well as West Wales. Travel to the Midlands and to the North is equally convenient. The journey by road from Birmingham, for example, takes only two hours. The main coach and railway stations are both centrally placed, and Cardiff also benefits from an international airport.
Cardiff University has an international reputation for excellence in teaching and research, built on a history of service and achievement since 1883, and recognised by our membership of the Russell Group of leading research-led universities.

With attractive and compact campuses, excellent student accommodation, and a hugely popular Students’ Union, all within easy walking distance of each other in a thriving city, it is not surprising that Cardiff is a first choice university for many. We admit approximately 5,000 undergraduate entrants each year, the majority of whom are school and college leavers, and have high grades at A-level or equivalent. While competition for entry is strong, Cardiff is an inclusive university with a good record on widening participation and fair access, and we welcome applications, irrespective of background, from everyone with the potential to succeed at Cardiff University.

The University’s Cathays Park Campus is located in and around the impressive Portland stone buildings, parks and wide tree-lined avenues that form Cardiff’s attractive civic centre. The majority of academic schools are located here - just a few minutes’ walk from the city centre. The three academic schools offering healthcare courses (excluding Optometry and Pharmacy) are based at the Heath Park Campus, approximately one mile away, which is also home to the University Hospital of Wales.

Although dating from 1883, Cardiff is focused on the 21st century, and has modern state-of-the-art buildings and facilities. The University has invested substantially in its estate in recent years and continues to do so today. Most academic schools have benefited from major refurbishment, including new and well-equipped laboratories, lecture theatres, libraries and computing facilities. International opportunities are available via our Global Opportunity Centre. These include study, work and volunteering placements in 27 EU countries as well as international exchange opportunities. All students also have the opportunity to study a language, in addition to their degree, through the University’s Languages For All programme.

The University takes its environmental, safety and security responsibilities very seriously. It has comprehensive policies in place which are making great savings in energy consumption and, to support the safety and security of all members of the University community and their property, there is 24-hour security cover throughout the campus.

What the Guides say . . .

“Cardiff University is a hugely popular UK university ... [it] has a reputation for world-class research and provides an excellent experience for its student body.”

Telegraph University Guide 2018

Cardiff University is among the best in the UK for preparing graduates for the workplace.

Times Higher Education – Global University Employability Ranking 2016

Cardiff offers one of the best student experiences in Wales, according to the latest Times higher Education UK Student Experience Survey.
As a fast developing capital city, Cardiff is a great place to be a student. It’s large enough to offer you an exciting variety of activities and entertainment, but small enough for you to feel comfortable in.

Accommodation
Cardiff offers guaranteed University accommodation of good quality and value, and a range of residences to suit individual preferences and budgets.

All undergraduates who accept their offer of a place from Cardiff, on a firm basis, are guaranteed a single occupancy place in University residences during their first year of study.

Please see our website for full details of our accommodation guarantee and associated deadlines:
www.cardiff.ac.uk/residences

The University is continually investing in its student residences, and the views of students are taken into account at the design stage. Unusually for a civic university, most of our residences are within easy walking distance of lecture theatres, libraries, laboratories, the Students’ Union and city centre.

There are 15 different residences, providing more than 5,500 study bedrooms and students can apply for the residences which best suit their preferences, interests and budgets. Some 70% have en-suite shower and toilet facilities and all halls of residence have computer network connection points and access to Wi-Fi.

Fees depend on the facilities included and whether catered, part-catered or self-catered, but prices compare very favourably with those of other UK universities. Besides managing University property, the Residences Office maintains close links with the private sector and provides assistance to students seeking to rent or share houses or flats.

Student Life
The Students’ Union
Cardiff Students’ Union is one of the biggest, best and most active in Britain. A multi-million pound investment has been made in Union facilities in recent years, which has included a new venue called Y Plas, which at night becomes a nightclub.

Hosting live music, club nights, stand-up comedy, fashion shows and awards ceremonies, there’s lots to keep you entertained from your first day to your last.

Other facilities include a food court, a bank, a print shop, a hair salon and a bookshop. The Lounge offers IT and Skyping facilities, meeting rooms and a “chill-out” area, as well as snooker tables and multi-faith prayer room. The Union also has its own letting agency and an Advice and Representation Centre. In addition, it is home to CU TV and Xpress Radio (the students’ own TV and radio stations) and more than 200 cultural, political, religious, social, sporting societies and clubs.

Jobshop
Jobshop is the Union’s own student employment service and provides casual, clerical and catering jobs around the University to hundreds of students.

What the Guides say . . .
“Cardiff is one of the best UK cities for young adults because of its low cost of living, good job opportunities and decent wages.”
The Complete University Guide 2017

“Cardiff boasts one of the lowest living costs in the UK.”
The Complete University Guide 2018

Cardiff is “the most cost-effective city for students.”
Natwest Student Living Index 2017
Why Study Chemistry at Cardiff?
The School of Chemistry at Cardiff University recognises the importance of educating outstanding chemistry professionals and scientists of the future. We have created taught undergraduate programmes that reflect the practical learning needs of students, and the professional requirements of employers.

We are committed to teaching of the highest quality. Our curriculum is continuously reviewed and updated by our academic teaching staff in consultation with students and industry. All of our undergraduate degree programmes have been accredited by the Royal Society of Chemistry which reflects our high teaching standards.

Around 180 undergraduates are accepted to the School each year, along with a select cohort of postgraduate taught and research students. The School offers a range of BSc and MChem degrees at undergraduate level, and MSc taught, MPhil and PhD research programmes at postgraduate level.

Our teaching is informed by our current research activities, which focus on the benefits of chemistry for society. In the past, our academic staff have helped to develop anti-cancer drugs, design imaging materials that can diagnose heart defects, and gain new insights into renewable energy fuel cells.

The School of Chemistry is located inside Main Building. Our teaching facilities, including laboratories, equipment, study areas and lecture theatres, are regularly refurbished to provide a spacious and engaging learning environment for all.

The Science Library is adjacent to the School and provides access to networked computers as well as hard copy and digital study materials. There is also a refectory and coffee shop on site. Main Building is within walking distance of the Students’ Union, city centre amenities, parks, and many of the University’s residences.

Course highlights:

- **Flexibility:** All Single Honours undergraduate degree programmes share a common curriculum over the first two years of study. This enables students to choose the right course for them after they have had a chance to develop their chemistry knowledge and career aspirations for two years.

- **Global opportunities:** The School has a diverse population of students. We encourage everyone to spend some time abroad during the course of their studies. Several of our programmes offer the option of an entire year spent studying abroad.

- **A tight knit community:** We aim to cultivate a friendly and helpful environment in which students can thrive. The student Chemistry Society, which hosts an annual ball along with other social events, is just one example of our welcoming School community.

Chemistry is an increasingly important discipline in the modern world. The fundamentals of chemical science have many applications. It is consequently an exciting subject to study and a varied field to work in. Chemists are sought after in many different industries, from environmental and energy companies to drug discovery and medical diagnosis.
Our Undergraduate Degree Programmes
We offer a range of undergraduate programme options. A distinctive feature of all our undergraduate courses is their flexibility. Each of these programmes, whether BSc or MChem, has a common curriculum in years one and two. This enables students to carefully consider their study options after they have already enrolled on a course.

Students are able to enrol on a different undergraduate chemistry course before the third year, for example to change from an MChem to a BSc course or to add a year in industry or year abroad. A further highlight is our wide range of options for international study through the MChem with a year abroad programme.

### Bachelor Level Programmes (BSc)

The Bachelor of Science programmes (BSc) provide a broad coverage of chemistry suitable for those who want to progress to a career in chemistry or a related discipline e.g. teaching. They are also well suited to those who wish to use the knowledge and skills obtained in a wider context, such as in business or administration. All the BSc programmes have met the Royal Society of Chemistry requirements for recognition as providing a suitable basis of study appropriate for Associate Membership.

#### BSc Chemistry (F100)

The BSc Chemistry programme is a three year course, covering the essentials of the subject to allow further study, research or employment. It includes some opportunity for research, and provides a range of skills, both specific to chemistry and more general transferable skills essential to many other careers.

#### BSc in Chemistry with a Year in Industry (F101)

The BSc in Chemistry with a Year in Industry covers the same academic material as the BSc Chemistry, but includes an extra year in industry to give experience of work in the field. Students undertake paid work in a chemically-oriented organisation to understand the chemical business, develop chemical skills and to extend transferable skills.

Placements are arranged in conjunction with the School and our industrial partners, and are chosen to ensure that each student gains a valuable experience and professional development, assisted by continued pastoral support and academic guidance through the personal tutor in the School.

### Master Level Programmes (MChem)

The Master of Chemistry programmes (MChem) enable students to learn about all branches of chemistry and further their knowledge of selected key areas. MChem programmes are designed for those who are considering a career in chemistry. A special feature of these programmes is a major research project in the final year, carried out in one of the many areas in which our research staff have an active interest. Extensive details of our research areas are available on the School’s website. All three MChem programmes we offer have met the Royal Society of Chemistry requirements for accreditation as providing a suitable breadth and depth of study appropriate for the Chartered Chemist (CChem) designation, following the necessary further experience in a relevant position in the profession.

#### MChem Chemistry (F103)

The MChem in Chemistry consists of four years of study entirely in Cardiff. The programme is built upon the strong platform of the common first two years and then delves into greater detail in the third and fourth years. This focus on specific areas of chemistry affords students an in-depth knowledge which is the sound basis for research and further study in a chosen area.

#### MChem in Chemistry with a Placement Year Abroad (F102)

The MChem in Chemistry with a Placement Year Abroad is similar to the MChem with a Year in Industry with the third year spent in an overseas university. Former students have been able to go all over the world, with recent examples including Europe, North America and Australasia. This overseas placement involves a major research project arranged through our wide network of research collaborators, as well as distance learning modules to develop academic knowledge in essential areas. The final year will be spent with fellow MChem Chemistry students in Cardiff.

On return to Cardiff, the fourth year is undertaken with the MChem Chemistry students. Placements are competitively secured and managed by the School. They are chosen to ensure that each student gains a valuable experience and professional development, assisted by continued pastoral support and academic guidance through the personal tutor in the School.

#### MChem in Chemistry with a Placement Year Abroad with the Sandwich Programme (F104)

The MChem in Chemistry with a Placement Year Abroad with the Sandwich Programme enables students an in-depth knowledge which is the sound basis for research and further study in a chosen area.

Placements are arranged in conjunction with the School and our industrial partners, and are chosen to ensure that each student gains a valuable experience and professional development, assisted by continued pastoral support and academic guidance through the personal tutor in the School.

On return to Cardiff, the fourth year is undertaken with the MChem Chemistry students. Placements are competitively secured and managed by the School. They are chosen to ensure that each student gains a valuable experience and professional development, assisted by continued pastoral support and academic guidance through the personal tutor in the School.

### Degree Table

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<td>F101</td>
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General Programme Information

Programme Structure
We aim to provide the best teaching, learning facilities, and pastoral care that will enable you to reach your full potential during your studies with us. In return, we expect our students to use the resources we provide in ways that are most effective for them, and to take responsibility for their development throughout the programme.

Our programmes are made up of modules, usually up to six (worth 120 credits in total) are taken in each semester. Every module contains an element of coursework. The form of assessment will vary from module to module, for example practical work, workshops, examinations, written assignments. Detailed module descriptions can be found on the University Course Finder webpages at www.cardiff.ac.uk/study/undergraduate/courses.

Teaching, Learning and Assessment
In all programmes, teaching is undertaken through a series of lectures, tutorials, workshops and practical classes.

Lectures
Lectures play a major role in teaching. Students will typically attend 10-12 lectures weekly, each of 50 minutes duration. The topics of each lecture are supported in various ways depending on the nature of the topic, such as computer presentations, molecular models, computer graphics, handouts and course summaries. We record all of our Lectures, Workshops and Revision Sessions and these materials are electronically available to students through the University’s virtual learning environment, Learning Central.

Laboratory Work
Laboratory work makes up another large part of the teaching curriculum. Practical classes take place almost as frequently as lectures; on average 10-12 hours will be spent in the laboratories each week. In the first year of study, emphasis in practical classes is on basic techniques and accurate recording of observations. In later years, student progress towards more substantial experiments requiring planning, analysis and interpretation of results, and reporting to a professional standard. Practical work is integrated into each core module in the first two years, and this provides students with experience in all the main laboratory procedures and techniques across the field of chemistry. Our training is holistic and designed to ensure that each student ultimately reaches a standard of practice that is commensurate with the degree being followed (BSc or MChem).
Computers in Chemistry
At Cardiff, we strongly encourage use of computing in our chemistry degree programmes. Undergraduate students are taught how to use the latest software and molecular modelling packages. We expect students to present all submitted work to a professional standard. All of our degree programmes share a computing element. Computer suites are provided within the School, Science Library and across the University in order to facilitate study, and any software that is essential to the course is provided by the School.

Small-group Teaching
In the first three years of study at Cardiff, all undergraduate chemistry students are given the benefit of being split into small groups to attend tutorial classes. These small classes allow students to study, discuss and analyse the materials presented in lectures and enable them to develop communication skills.

Workshops
Another popular way of teaching is through workshops. They can take various forms at different junctures in the curriculum, but are essentially opportunities to develop transferrable skills, such as communication, presentation and debate. Workshops are an integral part of teaching and are particularly significant in modules that further critical analysis, making judgements, forming arguments and oral presentation.

Assessment
Students are assessed by a combination of end-of semester examinations and coursework which includes practical work, workshops, and a research project. In addition to these formal assessments, practical reports and other coursework is marked and returned regularly with comments and advice to assist you in making steady progress and improvement throughout your course. Final degree classifications are based on the results of all years except the first, and are weighted so that your final year assessments make the most significant contribution to your degree outcome.

Personal Tutors
Each student is assigned a personal tutor at the start of their programme. Personal tutors are members of academic staff who can advise you on academic, non-academic and personal matters in a confidential manner. Instead of giving students two tutors, we combine personal and academic support in one personal tutor, which enables students to build a good relationship and ultimately, have a better experience. Some formal meetings between tutors and students are required and additional informal contact is encouraged. Where appropriate, your tutor may direct you to a specialist advisor within the University.

Research Projects
A large part of each undergraduate course is dedicated to independent, supervised research. In the MChem Chemistry programme, research takes the form of a 60 credit module in the fourth year, occupying around three days a week in both semesters. It includes planning, carrying out experimental work, analysis of results and reporting findings in a thesis. This project module is used to give students an accurate experience of what real research involves. Students often get a taste for research during this period and opt to continue studying and complete a PhD within the School.

Research activity within the School is organised into a number of key areas: Advanced Spectroscopy & Dynamics, Biological Chemistry, Catalysis & Interfacial Science, Materials & Energy, and Molecular Synthesis. We place particular emphasis on breaking across traditional boundaries within the chemical sciences in order to encourage interdisciplinary research. As well as conducting multidisciplinary research, academic and research staff within the School also collaborate extensively with colleagues across the University, in other academic institutions in the UK or abroad, and in industry.

We are able to provide students with an extensive range of sophisticated chemistry tools that are frequently used by our researchers, such as equipment for surface science, X-ray crystallography, calorimetry, spin resonance spectroscopy and electroanalytical chemistry. Many undergraduate students are therefore able to turn their projects and knowledge into more substantial research themes and publications in scientific journals.

Years One and Two
All students, regardless of degree programme, share the same modules in year one and two. This provides you with a thorough basis for study in the years ahead. In the first year, we consolidate and extend your previous knowledge of chemistry into all branches of the subject. First year teaching comprises core chemistry and optional modules. You may choose your optional modules from a selection offered by the School of Chemistry or take a look at options from other Schools.

Optional modules are reviewed annually and updated where necessary to ensure that you are exposed to the latest developments in the subject. They provide you with a great opportunity to exercise choice over your studies and extend your breadth of experience.

In the second year, all modules are core and cover fundamental aspects of the main branches of chemistry. At the end of year two, the courses diverge according to degree scheme.

BSc Chemistry Programmes: Final Year
The BSc programme is a three year programme. In the final year students cover key areas of chemistry in more depth. In the final year semester, students are again able to select optional specialist modules which are aligned to important research areas within the School. Before Christmas, students complete a series of laboratory exercises that are reported on to a professional standard. In the second semester you undertake a research project.

MChem Chemistry Programmes: Years three and four
The MChem programme is intended to develop chemical understanding and knowledge to a higher level than is possible in the BSc. With this programme, there is a greater emphasis on analysis, synthesis and problem-solving and we give students significant opportunities to develop transferable and professional skills needed for self-sufficient working as a professional chemist. A substantial research project in the fourth year provides the opportunity for students to develop and demonstrate these higher skills in the form of independently conducted research. In preparation for this project, the third year includes exploration of advanced experimental techniques and experience of critical analysis applied to chemical problems.

The MChem is available with the third year spent in an industrial organisation, or in a university abroad. It is a good opportunity for students to experience the working practices and needs of industry or study in other cultural backgrounds and countries. Many students appreciate these experiences and they are often well-regarded by employers. A research project, either in the host university or industry, forms a major part of the year away and is supplemented by distance learning modules that keep students engaged with the teaching activities within the School.
Employability and Careers

Our chemistry graduates are sought after by a wide range of employers who are looking for people with excellent communication skills, experience in a laboratory environment, IT literacy and confidence in analysing varied information.
The learning experience we offer is designed to embed the skills that are so highly valued by employers from a broad range of professions. We aim for our students to develop into independent, thoughtful and articulate individuals who are capable of applying high level analytical and problem-solving skills to a remarkably wide range of contexts in reliable and creative ways.

In the current climate of the chemistry profession, industry emphasis is on finding greener, cheaper and faster processes. You can apply the knowledge gained from our courses, to a wide range of chemical processes in many different industries.

The skills our graduates are equipped with also make them highly employable outside of the laboratory environment, and we see a considerable number of graduates gaining employment in non-“white coat” environments.

During the course, you will have shown yourself to have a special ability to solve problems. You will be able to:

- grasp complex issues with confidence
- ask the right questions of complex data
- analyse critically and reflectively
- identify and apply relevant data
- propose imaginative solutions of your own that are rooted in evidence and demonstrate clear, concise and persuasive arguments in writing and speech.

We aim for our graduates to possess the following transferrable skills after completing the course:

- working independently to deadlines and priorities, managing a range of tasks at the same time
- articulating well-researched projects with the right degree of assertiveness
- ability to learn from constructive criticism and incorporate its insights in revising your work and in future work on different projects
- demonstrating enterprise and initiative in researching your topics and developing theories for future research
- effective team working, including respect for the ideas and arguments of others and developing a collaborative approach to inquiry and problem-solving.

Having undertaken a wide and in-depth amount of training within a laboratory environment, you will be highly experienced and confident in practical chemical techniques used in laboratories around the world. You will be able to use laboratory equipment and spectroscopic techniques to a high degree to tackle the problems set in the differing spheres that chemistry occupies.

Finally, you will have practised and developed a range of communicative skills, including the use of IT programmes and digital media.

Careers and Employability Service
The University offers a careers and employability service for students, graduates and postgraduates. You can access careers information, explore your options and speak to a consultant who can advise you of opportunities relating to your degree or preferred field, including advice on postgraduate degrees. The service offers guidance on preparing a CV and job applications and gives you the chance to meet and network with top graduate recruiters at Careers Fairs and events. If you are looking for work experience, the careers service can assist with planning and organising your placement.

www.cardiff.ac.uk/carsv

“I gained independence and diversity on an unforgettable journey that will continue to benefit me, and one that I fully recommend to others.”
What Our Students Say About Us...

Morgan Bates  
MChem Chemistry with a Placement Year Abroad

I decided to study chemistry at Cardiff University because of the flexibility of optional modules in first year. When I enrolled, module option included forensic chemistry, which is a subject I really enjoy. The facilities are very good and the brand-new lecture theatres with lecture recording facilities have been very useful.

Amy Gough  
BSc Chemistry

In chemistry we receive quality teaching from enthusiastic lectures that care about their fields. It has given me the opportunity to explore so many aspects of chemistry, and encouraged me to see what I’m truly interested in. There are so many valuable transferable skills I have already gained during my Chemistry degree, and plenty of opportunities in industry and abroad, which have opened so many careers options to me.

Vladimir Vladimirov  
MChem Chemistry with a Year in Industry

I chose Cardiff University as it’s part of the prestigious Russell Group, and its research has been ranked highly, both for chemistry and as an institution overall. I decided to study this course as it provides the opportunity to gain a master’s degree and a year of work or research experience in just 4 years. My favourite part of the course was my placement year, which allowed me to gain valuable hands-on experience by working in industry. Through my degree, I was able to develop many of the skills that employers look for, which I believe will allow me to quickly secure a job after graduation.

Lukas Gierlichs  
MChem Chemistry with a Placement Year Abroad

Cardiff may be a capital city, but from the moment I arrived it felt like home; and that’s what I love most about studying here. Cardiff is a Russell Group University, so the School of Chemistry’s courses give you an insight and training at the frontiers of chemical science, but in a setting that is far from intimidating. Not only that, the opportunities afforded to me as a student were beyond my expectations.
Applications

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<td>MChem Chemistry with a Placement</td>
<td>F102</td>
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<tr>
<td>Year Abroad</td>
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<tr>
<td>MChem Chemistry with a Year in</td>
<td>F104</td>
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<tr>
<td>Industry</td>
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<tr>
<td>BSc Chemistry</td>
<td>F100</td>
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<tr>
<td>BSc Chemistry with a Year in Industry</td>
<td>F101</td>
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To be considered for entry onto one of our degree programmes you should apply online via the UCAS website using the ‘UCAS Apply’ facility. To use this facility you need to log on to: www.ucas.ac.uk/apply

The website will provide you with information on how to apply and explains the UCAS procedure.

Entry Requirements

Applications are considered from candidates offering a range of qualifications. The majority of applicants will be A-level students, for whom the typical offer will be within the range of AAB-BBB, to include a minimum of grade B in Chemistry.

We also accept the Welsh Baccalaureate qualification but it must be in addition to two other A-level subjects, one of which must be Chemistry.

International Baccalaureate

Applicants will be expected to achieve 34 points for the programme, with 10 points in total or above at the Higher Level from Chemistry and another science or Mathematical subject. This is to include a minimum of 5 in Chemistry.

Other

Applications from those offering alternative equivalent/overseas qualifications are welcome as are those who may have other relevant work/life experience.

Specific Subjects

A-level: General Studies and Critical Thinking are excluded.

GCSE: No specific requirements other than normally at least a grade C in English Language and Mathematics.

Applications Information

Typical intake: 180

Typical number of applications: 750

Equal Opportunities

Cardiff University is committed to promoting equality and diversity in all of its practices and activities, including those relating to student recruitment, selection and admission.

The University aims to establish an inclusive culture which welcomes and ensures equality of opportunity for applicants of all ages, ethnicities, disabilities, family structures, genders, nationalities, sexual orientations, races, religious or other beliefs, and socioeconomic backgrounds.

This commitment forms part of the Equality and Diversity Policy which is available at: www.cardiff.ac.uk/public-information/equality-and-diversity

Applicants with Disabilities/ Specific Needs

All offers to study at Cardiff University are made solely on the basis of academic merit. Where applicants have specific requirements that relate to a disability or medical condition, they are encouraged to discuss these with relevant staff in order that appropriate arrangements can be made to ensure the University provides an accessible environment.

Specifically, applicants are invited to contact the Disability Adviser who can provide information about the applications procedure, course delivery and access to the physical environment. Where appropriate, informal visits can be arranged in which applicants can view accommodation and meet academic staff.

For further information please contact the Disability Adviser:

Tel: +44 (0)29 2087 4844

Email: disability@cardiff.ac.uk

Open Day

University-wide Open Days are held throughout the year and provides the opportunity to visit all schools in addition to residences, the Students’ Union and sports facilities.

For further information please visit our website at: www.cardiff.ac.uk/opendays

Deferred Entry

The School has no objection to the possibility of deferred entry provided the intervening year is spent in a positive and worthwhile way. Application is made through UCAS in the usual way, although the UCAS application must show the deferred year of entry.

Admissions Contacts

For information on applying and enrolling on an MChem or BSc programme, please contact:

The Admissions Tutor

School of Chemistry, Cardiff University, Main Building, Park Place, Cardiff CF10 3AT

Tel: 029 2087 4023

Fax: 029 2087 4030

Email: chemistry-ug@cardiff.ac.uk

Web: www.cardiff.ac.uk/chemistry

Tuition Fees and Financial Assistance

The University charges an annual fee which covers all tuition fees, registration and examinations other than the re-taking of examinations by students not currently registered. Please note charges for accommodation in University Residences are additional.

Please see the following website for more information: www.cardiff.ac.uk/fees

Scholarships and Bursaries

For more information please visit the following website: www.cardiff.ac.uk/funding-ug

Useful websites for information about tuition fees and financial assistance:

Cardiff University website: www.cardiff.ac.uk/fees

Student Support Centre website: www.cardiff.ac.uk/financialsupport

Student Finance Wales: www.studentfinancewales.co.uk

Student Finance England: www.direct.gov.uk/studentfinance

Student Loans Company: www.slc.co.uk
How to find the School
The School of Chemistry is located within the Main Building. The most convenient entry is via the car park on Park Place (opposite the Students’ Union Building). If you enter by the door in the north wing of this building (to your right as you enter the car park), the School Office is immediately on your left.

Terms and Conditions
Every effort has been made to ensure that the information contained within this brochure is correct at the time of going to press. However, the University does not accept any liability for any errors that it may contain, or for any subsequent changes to the University or Government policy that may affect the information given. Cardiff University expressly excludes any representations or warranties (whether expressed or implied) and all liability including direct, indirect, special, incidental or consequential damages arising out of the use of the information on these pages, to the fullest extent possible under law.

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Tel: 029 2087 4455
Email: RobertsL9@cardiff.ac.uk

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To find out more about the School of Chemistry please visit our website: [www.cardiff.ac.uk/chemistry](http://www.cardiff.ac.uk/chemistry)

**Student Bloggers**

From study tips to where to eat, to societies, weekend trips and where to get your books, our student bloggers are real students talking about the reality of being a student at Cardiff. Don’t miss their latest blogs for the chance to find out more about what it’s like to study and live in Cardiff.

[www.cardiff.ac.uk/studentbloggers](http://www.cardiff.ac.uk/studentbloggers)