

CARDIFF  
UNIVERSITY

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CAERDYDD

# School of Chemistry

**Undergraduate** Degree Programmes

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

# Welcome to our School



**95%** of our graduates are in employment or further study six months after graduating.

Source: DLHE 2016/17

**Accredited** by  
the Royal Society  
of Chemistry.

**Outstanding**  
newly furnished  
facilities with  
state-of-the-art  
equipment.

Plenty of  
**opportunities**  
to work and study  
abroad.

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# Choose Cardiff

We offer a supportive environment in which to learn, think and develop vital professional skills and knowledge.



I am delighted that you are considering studying at the School of Chemistry at Cardiff University. During your time with us, we will do everything we can to help you achieve your potential, giving you the knowledge, skills, and experiences for a fulfilling career and future.

Our students and staff come from the UK, Europe and further overseas to create a close knit and diverse community. The teaching staff at the School of Chemistry are engaged in research that aims to tackle the important scientific challenges of the 21st century. Their experience covers all the main areas of chemistry and its interfaces with other scientific disciplines and technologies. This expertise is embedded in our degree programmes, providing a modern learning experience in molecular science. I hope you will find your university experience intellectually stimulating, enjoyable and highly beneficial to your future career.

This brochure introduces our School and the undergraduate degree programmes that we offer. You'll find specific information on your specialist subject and the opportunities available to you during your studies and after you graduate. I hope you will find it a useful guide to help you in your choice of both degree programme and university.

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

**Professor Damien Murphy**  
Head of School



# Why study with us?

From top-quality facilities to flexible courses, there are plenty of reasons to study at the School of Chemistry.





With our support and your commitment, we believe we can help you to build the future you want. Here are our top five reasons to study at the School of Chemistry.

### 1 Flexible courses

All our undergraduate degree programmes share a common curriculum over the first two years of study. This allows you to choose the right path for you after you've had a chance to develop your knowledge in all the different branches of chemistry.

You may request a transfer from the BSc to the MChem, or you can add a year in industry or a year abroad before the end of year one.

Year three (and four for MChem students) is highly flexible, allowing you to mould the course to your career aspirations. Alongside learning core topics, you will be able to specialise your degree by choosing from a wide range of optional modules.

### 2 Academic excellence

As a Russell Group University, we're committed to maintaining the very best research, an outstanding teaching and learning experience and strong links with industry.

In the latest Research Excellence Framework (REF) we were ranked 9th in the UK and all our research output was rated at least internationally recognised.

All of our courses are accredited by the Royal Society of Chemistry, and we're continuously reviewing our curriculum to keep it current with industry and student needs.

### 3 High-quality facilities

Our School is located inside the iconic Main Building within walking distance of the Students' Union, city centre amenities, parks, and many of the University's residences.

With an investment of over £14M in recent years, our extensive facilities provide a thriving teaching and research atmosphere.

### 4 Great student experience

We offer a supportive, well-equipped environment with so many activities available there's bound to be something for you.

From a host of outreach activities that you can get involved in through the Student Ambassador Scheme to ChemSoc, our student society, who organise events like the annual Student Ball.

We have a strong and highly-recommended student mentor scheme which helps our first-year students adapt to university life. Our student mentors provide advice on anything from new ways of learning and teaching to living away from home.

We encourage everyone to spend some time abroad studying or volunteering during their studies, and provide support and guidance during your time there.

### 5 Strong career prospects

Everything we do at the School of Chemistry is about setting you up for a successful career, which is why 95% of our graduates are in employment or further study within six months of graduating.\*

Our graduates go on to work in a wide variety of job roles, including pharmaceutical development scientist, materials analyst, catalyst researcher and patent attorney.

Cardiff University's Careers and Employability service is here to help and support you, offering everything from CV workshops, one-to-one advice, interview practise sessions and careers fairs with top employers.

\* Graduate destinations statistics are based on HESA Destination of Leavers of Higher Education, 2016/17.

# Location and facilities

We've made sure that our environment and facilities meet all your needs to ensure you achieve your potential.





## Most of our teaching takes place inside our iconic Main Building, a historic building central to other University facilities and Cardiff city centre.

We have our own restaurant and library, as well as host of laboratories and computing facilities.

Though our home looks traditional from the outside, our teaching spaces are anything but. Many of our learning spaces have undergone a multi-million pound transformation, providing a spacious and engaging learning environment for all. There are plenty of power sources for your devices, lecture theatres with recording systems and microphones, as well as a reliable WiFi service.

The main library for chemistry students is the Science Library, located adjacent to the School in Main Building. Many books and journals can also be accessed electronically.

The Science Library is open from 08:45 - 21:30 from Monday to Friday, and from 10:00 - 17:30 on weekends

Subject librarians are there to help with all your study and research needs. They also host workshops on information searching and literature research.

### Research facilities

From the latest analytical techniques to expert scientific workshop capabilities, these facilities underpin our teaching and research activities.

- Mass spectrometry and chromatography
- Nuclear magnetic resonance
- Electron paramagnetic resonance
- X-ray diffraction
- General spectroscopy and solid-state characterisation
- High-performance computing
- Technical workshops
- XPS surface analysis facility
- X-ray Photoelectron Spectroscopy (XPS) analysis

If you would like to look around our department, take our virtual tour at:

[chemistrytour.cardiff.ac.uk](http://chemistrytour.cardiff.ac.uk)



# Year in industry and year abroad options

Chemistry students volunteering with the Agape Volunteers teaching programme, a charity project which supports humanitarian work to improve lives across Africa.



# Develop your employability skills with a year in the industry, or learn while you travel by studying at one of our partner universities abroad.

## Year in industry

In a competitive graduate job market, industry experience can help you gain extra skills and experience to make you stand out from the crowd. It could help you to secure a permanent role after you graduate, as well as providing real-world context to support your studies.

If you're not sure what career path to follow, it's a great opportunity for you to figure out what you want to do. It might even help you make those all-important decisions about your future.

Cardiff University has links with over 300 institutions and can provide you with the opportunity to embark on placements across the world. Our chemistry students have completed exciting placements at organisations such as Dow Chemical Company, GSK, Pfizer and Kodak.

### How does it work?

If you choose to study the MChem in Chemistry with a year in industry, during year three of four you will take a 9-12 month placement (80 credits) in industry and a compulsory theory module in each branch of the subject across both semesters (40 credits) by distance learning. Your placement will take place in an industrial laboratory where you will undertake research supervised by the host employer but assessed primarily in Cardiff.

If you choose to study the BSc in Chemistry with a year in industry, during year three of four you will undertake an industrial placement (120 credits). You will effectively be an employee of the company with whom you are placed, and you will conduct chemistry-related activities appropriate to the commercial nature of the company.

You will return to Cardiff following the successful completion of your work placement at the start of the Autumn semester ready for your final year of studies. You don't need to commit to a placement until the start of year two.

The School will help you to find a placement related to your interests and strengths, and we will maintain close contact with you throughout your placement.

## Year abroad

Studying abroad as part of your university experience is a great way to broaden your academic knowledge, immerse yourself in another culture and gain skills that could be valued by employers. But, above all, it's the start of a new adventure. You will experience other cultures and viewpoints, make new friends and share unforgettable experiences.

We have developed numerous partnerships with top universities, which means that you can study in some of the most iconic and inspiring cities in the world. Destinations include Bern, Munich, Bologna and Barcelona, as well as many other universities further afield in Australia, Hong Kong, Japan, USA, New Zealand and Canada.

### How does it work?

If you choose to study the MChem in Chemistry with a year abroad, you will spend year three of four at a university abroad, giving you the chance to experience the working practices and culture of a different country. You will take a 9-12 month research project (80 credits) in an overseas placement provider and a compulsory theory module in each branch of the subject across both semesters (40 credits) by distance learning.

If you complete the BSc in Chemistry with a year abroad, you will spend year three on placement overseas, undertaking a project under the supervision of an English-speaking member of staff at the placement provider. The School will help you to find a placement related to your interests and strengths, and we will maintain close contact with you throughout your placement.

You will return to Cardiff following the successful completion of your year abroad at the start of the Autumn Semester ready for your final year of studies. You don't need to commit to a year abroad until the start of year two.

During a sandwich year (e.g. year in industry or year abroad) a lower tuition fee will apply.

Full details can be found on our website.

## Summer placements

You can undertake a range of study, work or volunteer opportunities with our partners around the world during the summer holidays of your degree.

### Volunteering

You can volunteer for projects that support the environment and local communities, teach in schools around the world, complete research and kick-started new business ventures. Past examples include volunteering at Thin Pacific in Fiji and at Rayleigh International in Costa Rica.

### Summer research projects

Global Opportunities International Summer Research programmes offer you the chance to experience international research on your chosen subject outside of term-time. Your research must last a minimum of three weeks and take place at a recognised university outside of the UK. Chemistry students have completed a three-week research project in the chemistry and cosmetics sector in Compiègne, France.

### Summer study programme

You can also study abroad during the summer holidays at institutions all over the world. The beauty of the summer study programmes is that they are flexible. You can choose to study at any recognised institution in the world and in addition, as it's non-credit bearing and outside of your degree, you can also choose to study any subject you like. You could study a subject related to chemistry or something completely new and different, like a new language.

### Summer work placements

The skills you'll develop on an international internship will help you stand out to employers in the UK or abroad. There are internships available in Columbia, Vietnam, Mexico, China, Spain, Namibia, Canada, USA and more.

Past examples include a four-week STEM Internship Project in Australia and an agrochemicals research project in Spain.

# Our degree programmes



**During my year abroad at the University of Sydney,**

I researched photoactive MOFs in the Molecular Materials Group. This project has helped to improve my experimental design, critical analysis, and writing skills. I also got to visit iconic places, such as Bondi Beach, the Gold Coast and Brisbane.

**Joshua Morris,**  
BSc Chemistry with a year abroad

A distinctive feature of all our undergraduate courses is their flexibility. Our BSc or MChem degree programmes all have a common curriculum in years one and two. This enables you to carefully consider your study options after you have enrolled on one of our courses.

### Bachelor level programmes (BSc)

The three-year BSc Chemistry provides a broad base of study, so you can pursue a career in chemical science, chemical education and even non-chemistry careers, such as in business or administration. All our BSc programmes are accredited by the Royal Society of Chemistry.

#### BSc Chemistry (F100)

This three-year course aims to give you a flexible and dynamic education in the knowledge and skills needed to advance into a successful chemistry career.

You will study a broad introduction to the main areas of chemistry with the opportunity to specialise in topics that are interesting or important to you through optional modules and a research project. Plus, you will spend many hours in our labs gaining hands-on experience and developing your research, mathematical and computational skills.

#### 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 working in a paid placement in industry during year three. Your final year will be spent with fellow BSc Chemistry students in Cardiff.

You will get the opportunity to create valuable contacts and develop transferable skills that will prepare you for a competitive work environment.

Our team will help you find a placement and support you during your time there.

In the past, our students have completed placements with Dow Chemical Company, GSK, Pfizer and Kodak.

#### BSc in Chemistry with a placement year abroad (F106)

The BSc in Chemistry with a placement year abroad covers the same academic material as the BSc Chemistry, but includes a year spent at an overseas university during year three. Your final year will be spent with fellow BSc Chemistry students in Cardiff.

Working abroad will allow you to experience a different culture, expand your network and develop employability skills. This practical overseas experience will be a valuable addition to your CV when seeking graduate employment.

An overseas placement is arranged through our wide network of partner universities, as well as distance learning modules to develop academic knowledge in essential areas. In the past, our students have completed the year abroad in Europe, North America and Australia.

#### BSc in Chemistry with a preliminary year (F105)

The preliminary year is mainly for candidates who for some reason have not had the opportunity to study the prerequisite subjects needed for first-year entry. Successful completion of the one-year foundation course allows you to progress onto the first year of the core part of the degree course.

#### Undergraduate master's level programmes (MChem)

The four-year MChem Chemistry programme will enable you to learn all branches of chemistry and further your knowledge in selected key areas that are interesting or important to you. 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.

Details of our research areas are available on page 15.

All our MChem programmes are accredited by the Royal Society of Chemistry. Graduates are eligible for full membership to the Royal Society of Chemistry (MRSC) and may apply for the title of Chartered Chemist.

#### 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.

With more of an emphasis on research than our BSc degrees, backed up with analysis, interpretation and problem solving together with significant opportunities to develop transferrable professional skills, you can acquire all the attributes needed to be a self-sufficient working chemist.

#### MChem in Chemistry with a year in industry (F104)

The MChem in Chemistry with a year in industry is a four-year course which shares a common first and second year with the MChem in Chemistry. The third year is spent working in a paid position in an industrial laboratory.

This includes a substantial independent project in an area relevant to the sponsoring industry. Distance learning is also carried out to develop academic knowledge in essential areas.

On return to Cardiff, the fourth year is undertaken with the MChem Chemistry students. Our team will help you find a placement and support you during your time there.

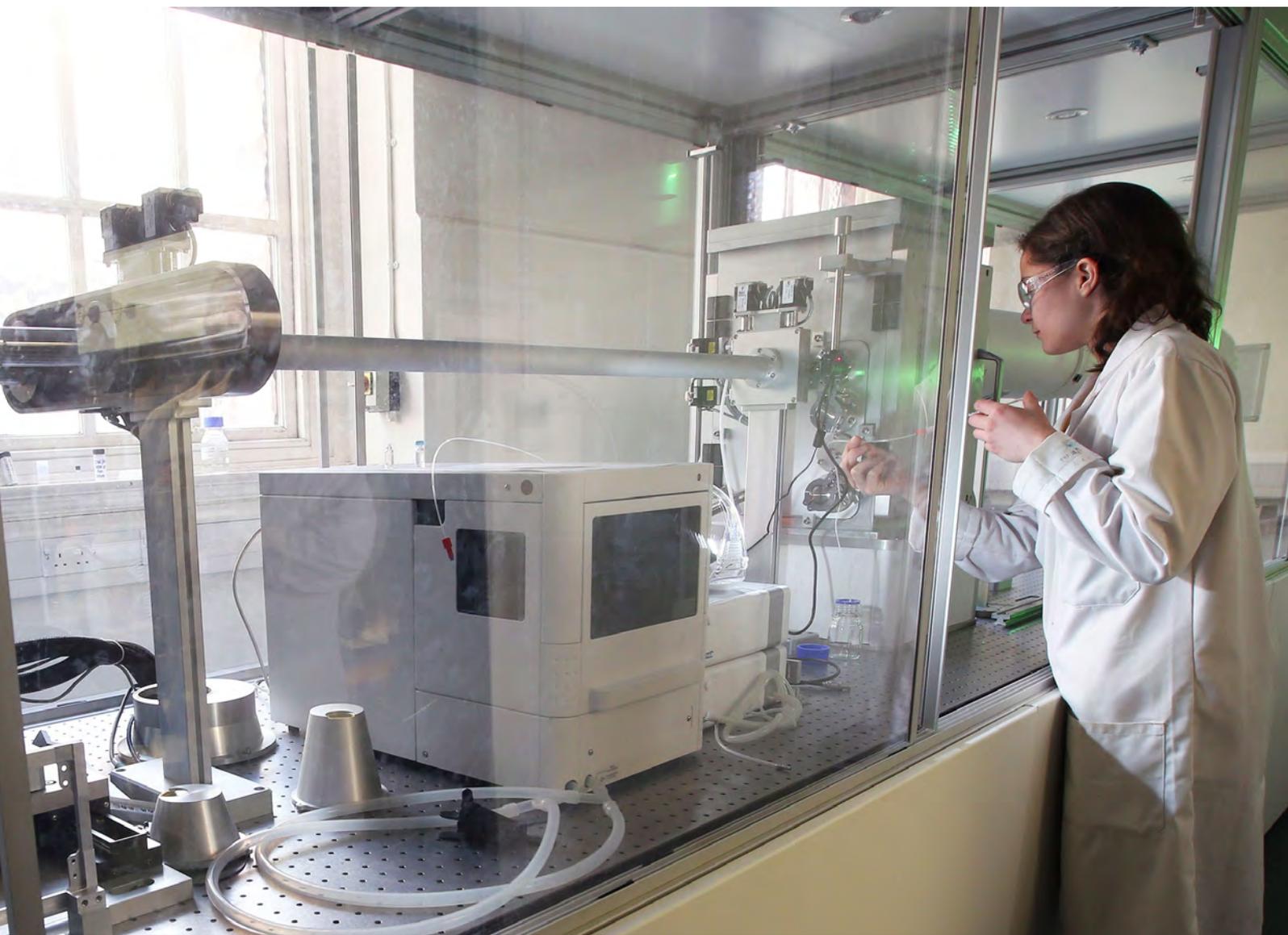
#### MChem in Chemistry with a placement year abroad (F102)

The MChem in Chemistry with a year abroad is a four-year course which shares a common first and second year with the MChem in Chemistry. The third year is spent completing a major research project at an overseas university.

An overseas placement is arranged through our wide network of partner universities, 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.

# Our learning environment



**We get quality teaching from enthusiastic lecturers**

who are passionate about their fields. My course has given me the opportunity to explore so many aspects of chemistry and find what I'm truly interested in. Cardiff is a city with endless opportunities.

**Amy Gough,**  
BSc Chemistry

## Programme structure

We aim to provide an exceptional environment for chemical education and our undergraduate degrees reflect our current research strengths and interests, with final-year projects fully integrated into our research groups.

Our courses have been designed to enable you to realise your maximum potential.

## Teaching, learning and assessment

Teaching is undertaken through a series of lectures, tutorials, workshops and practical classes. These are supported by material hosted on Learning Central, the University's virtual learning environment.

### Lectures

One major element of teaching is through lectures, typically 10-12 per week of 50 minutes duration. This can include slides, computer presentations, handouts and course summaries.

### Laboratory work

The second part of teaching involves practical classes, again typically averaging about 10-12 hours each week. In year one the emphasis is on basic techniques and simple but accurate recording of observations. Laboratory work progresses towards substantial experiments that need careful planning, analysis and interpretation of results, as well as professional standard reporting.

We record all our Lectures, Workshops and Revision Sessions and these materials are electronically available through Learning Central.

### Small-group teaching

Small group tutorial classes are given in all years, allowing practice, discussion and analysis of the lecture material, as well as the development of communication skills. Sessions are delivered by three allocated staff members, one specialist in each of the areas of organic, inorganic and physical chemistry. The same three tutors usually remain assigned to each group throughout your degree.

### Research project

All our Chemistry courses have a major element of independent, supervised research. In the final year of the MChem course you will join a research group working in your preferred area of chemistry and be allocated a topic to

investigate. Working under the guidance of an expert in the field, you will present results of your work orally and in writing. In the past, this has led to undergraduates co-authoring published papers.

### Computers in Chemistry

At Cardiff, we strongly encourage use of computing in our chemistry degree programmes and will teach you how to use the latest software and molecular modelling packages. We expect you to present your work in a professional standard.

There are computer suites within the School, Science Library and across the University, and any software that is essential to the course will be provided.

### 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

Every student has three academic tutors, one of whom also acts as your personal tutor. You will see one of your tutors each week, either as part of a small tutorial group or on a one-to-one basis in a personal tutorial. All staff operate an open-door policy, meaning you can always approach staff with issues, academic or otherwise.

### Years one and two (all programmes)

Our year one modules aim to stimulate your interest in the subject, whilst giving a solid knowledge base to build upon in the following years.

Our core chemistry modules are based around five principal subject areas: analytical inorganic, organic, physical and solid-state chemistry. They include training in key skills for chemists.

These core modules are complemented by a range of optional modules, allowing you to exercise choice over your studies and extend your breadth of experience. You may also take optional modules in disciplines such as biological sciences, physics or modern languages.

In year two, you will take more advanced compulsory modules that enable you to practise and consolidate new skills through application to a wide range of problems.

If you achieve at least 55% overall in year two, you can transfer to a MChem course before the start of year three. If a placement is attractive to you, you need to register your interest by the start of year two, and transfer to the BSc Chemistry with a year in industry or BSc Chemistry with a placement year abroad courses by the start of year three.

### Year three (BSc programmes)

In year three a substantial research project is undertaken in the spring semester. You will take a compulsory theory module in four branches of the subject and select from a range of optional modules.

### Years three and four (MChem programmes)

The MChem programmes share common core components with the BSc in Chemistry during the first two years. Later in the course, there is a greater emphasis on analysis, synthesis and problem-solving and we will give you significant opportunities to develop the transferable and professional skills needed for self-sufficient working as a professional chemist.

Year three practical work is formed by two separate modules, one in each semester. You will take a compulsory theory module in four branches of the subject: biological, inorganic, organic, physical; and you will select from a range of optional modules.

A substantial year-long research project in an area of your choosing gives you the chance to develop and demonstrate new skills through research. There are no compulsory theory modules in year four, which will enable you to select available modules that match your interests.

# Beginning your career



## Our students go on to achieve amazing things inside and outside of the lab.

Our students have an excellent reputation for finding employment after they graduate with 95% in employment or further study within six months of graduating (DHLE 2016/2017).

Our 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. Past employers include: Hichrom Ltd, Johnson Matthey, Patent Seekers, Price Bailey LLP, PCI Pharma, Randox, Hazlewoods LLP and Dŵr Cymru Welsh Water.

You will be able to use your knowledge to pursue a range of exciting research careers in areas such as: the discovery of new medicines and vaccines, forensic analysis for criminal cases, improving understanding of environmental issues, and the development of new chemical products and materials. The skills gained in the lab can also provide a stepping stone to roles in the manufacturing industry, where emphasis is currently on finding greener, cheaper and faster processes.

But chemistry careers don't begin and end in the lab. You could use the logical and practical training you'll gain to enter marketing, sales, management or finance. Scientific journalism, publishing and teaching are also potential career routes.

On completion of our courses, you should possess the following transferrable skills:

- work independently to deadlines and priorities whilst managing a range of tasks
- articulate well-researched projects with the right degree of assertiveness
- ability to learn from constructive criticism and incorporate its insights into future work
- demonstrate enterprise and initiative in researching 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 also be highly experienced and confident in practical chemical techniques used in laboratories around the world.

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

Our Careers and Employability Service offer information, advice, and guidance for our students and graduates on building skills, experience and contacts to improve employability, including:

- Employability masterclasses, covering CV, cover letter and application form support, interview techniques and an introduction to LinkedIn
- One-to-one advice sessions and daily drop-in sessions with qualified careers advisors
- The Cardiff Award Employability Scheme
- Help and advice finding work experience and placements
- Careers fairs and employer-led events where you can network with top graduate employers.

# Research



Our research is working to tackle major challenges facing society, the economy and our environment.

**Our strategic research sections focus on the following key themes that allow us to respond to the grand scientific challenges and help our research deliver global impact:**

- Advanced Spectroscopy and Dynamics
- Biological Chemistry
- Catalysis and Interfacial Science
- Materials and Energy
- Molecular Synthesis.

We collaborate widely within the School and with the Academic Schools of Pharmacy and Pharmaceutical Sciences, Biosciences, Dentistry, Physics and Astronomy, Medicine, Mathematics and Engineering. We also work with other leading UK and international universities and businesses around the world, such as BP, Panasonic, Johnson Matthey, Unilever and Toyota.

**We translate our high-quality chemical research into a broad spectrum of applications, including:**

- health (e.g. novel imaging agents)
- clean chemical manufacture (e.g. exploiting benign oxidising agents)
- environmental clean-up (e.g. exhaust after-treatment)
- sustainability (e.g. replacing rare metals in catalysis)
- security (e.g. sensors for chemical warfare agents)
- energy (e.g. photocatalysis and biofuels).

Some of our research highlights include developing catalysts which remove deadly carbon monoxide from confined environments; identifying a new catalyst which has the potential to save lives, improve health and clean up the environment; and predicting molecular properties using advanced computing.

A further cross-cutting structure, fully embedded within the School, is the Cardiff Catalysis Institute (CCI), one of our prestigious University Research Institutes. The CCI is bridging the gap between the academic pursuit of knowledge and the needs of industry to innovate and develop. The CCI work with several internationally leading and recognised partners in fields such as the automotive, fuel and chemical manufacturing industries and have helped develop and refine a range of processes through combinations of conventional and innovative methods. We have strong collaborations with many of the leading institutions in catalysis around the world.

Our state-of-the-art research facilities and equipment enable research in all branches of core and interdisciplinary chemistry. We provide students with 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.

# A capital city



Cardiff is a compact city with an enormous character. Nestled between the rugged coastline and breathtaking mountainous scenery of Wales, the country's capital is a cornucopia of culture, marrying historical delights with cosmopolitan amenities.

Providing an endless array of activities, one stroll through its cobbled streets can see you learn about the rich tapestry of Cardiff's past at Cardiff Castle before soaking in the atmosphere as the crowds spill from the Principality Stadium after one of the many sporting events it holds year round.

The vibrant and independent culinary scene is the heartbeat of the city. With something

to please every palette, you can enjoy fine dining, plant-based treats and exotic cuisines from almost every corner of the globe, without forgetting Welsh cakes for dessert!

Wales is the land of song, and Cardiff certainly contributes heftily to this legacy. This city is built with music running through its veins, from the oldest record store in the world Spillers Records, which is tucked away in Morgan Arcade, to more contemporary and intimate venues which host some of the world's most exciting new musical talent.

Though your Cardiff bucket list may be bursting at the seams, be sure to make a little room for our National Museum which is a place of

true wonder, while the iconic Wales Millennium Centre in the idyllic setting of Cardiff Bay is simply not to be missed.

Bustling with personality, Cardiff is a city made for students, offering an endless string of entertainment opportunities while remaining inexpensive and easy to navigate.

The modern shopping centres, aesthetic arcades, luscious green parks and thriving nightlife are a huge draw for living in Cardiff, though you'll always find your way back to our Students' Union, which is the true home of the student scene in the city.

“The official capital of Wales only since 1955, the buoyant city of Cardiff (Caerdydd) has, since the turn of the millennium, witnessed a remarkable evolution from a large town to a truly international city, with massive developments in the centre as well as on the rejuvenated waterfront. With a reputation as a party town, allied to lots of top-class sport and a cultural attractions, it is one of the UK's most enticing destinations.”

Rough Guide 2020

# A leading university

Part of the  
**RUSSELL  
GROUP**

A capital city



Our students learn from leading researchers in over 300 courses across the University. As Wales' only Russell Group institution, we have gained an international reputation for excellence in teaching and research, which is built from our history of achievement since 1883.

Cardiff University becomes home for approximately 5,500 new undergraduate students every year. While competition for places is strong, we pride ourselves on being an inclusive university, welcoming applications from everyone who wishes to study with us.

We are a global university with over 7,900 international students from more than 100 countries and open our doors to all applications, irrespective of background.

## Facilities and development

Committed to investing in our services, Cardiff University is home to new and well-equipped laboratories, lecture theatres, libraries and

computing facilities to name a few, with more exciting developments continuously underway.

We take our environmental, safety and security responsibilities seriously, embracing our comprehensive Energy, Water and Waste Policy, which is already making great savings in energy consumption and helping us to do our bit to tackle climate change.

## Global Opportunities

We are partnered with over 300 leading institutions across the world, and our Global Opportunities team will help you to gain valuable international experience, through study, work or volunteering.

## Supporting you

Our student support and wellbeing centres deliver a substantial range of services available to all students that are free, impartial, non-judgemental and confidential, aimed to help you make the most of student life and support you during your study.

We are also rated as one of the best universities for supporting LGBT+ students and are proud to be ranked highly in the Stonewall Workplace Equality Index.

## Virtual campus tour

Discover more about the University and the city of Cardiff through our interactive online tour at:

[virtualtour.cardiff.ac.uk](http://virtualtour.cardiff.ac.uk)

# Living in Cardiff



“Cardiff has one of the biggest, best and most active students’ unions in the UK, with high quality facilities including Y Plas, a 2,150 capacity nightclub; and the Great Hall, a major concert venue.”

Complete University Guide, 2019



Cardiff is the perfect place to be a student. It mirrors the hive of activity a big city offers, but in an intimate and compact setting with endless character. Drink in the atmosphere, soak up the culture and get stuck into the host of activities available in our city; your new home.

## A guarantee of accommodation

If you accept your offer of a place at Cardiff on a firm basis, you are guaranteed a single occupancy place in University accommodation during your first year, living with other first year undergraduate students.

The residential dates for your particular accommodation will be confirmed in your Offer of Residence.

## Residence Life

While staying in Cardiff student accommodation, you will have access to the incredible service provided by the Residence Life Team who work tirelessly to enhance your student experience.

Working in partnership with Student Support and Wellbeing, the Residences Office and the Students’ Union, Residence Life will welcome you to Cardiff and help you to make a smooth transition into University.

They also help foster a strong sense of community through social events and cultural activities, as well as practical support too.

## Students’ Union

Our Students’ Union is at the heart of the Cardiff student experience. It’s a student-led and independent part of the University, dedicated to making your time with us the best it can be.

Built on the foundation of inclusion, diversity, personal development and friendship, the Students’ Union runs a range of activities and services to help enhance your Cardiff University experience.

These include advice, training, skills development, entertainment, volunteering opportunities and employment throughout your time at Cardiff and to prepare you for a career after University too.

## Find out more . . .

### Accommodation

For further information please visit our website: [www.cardiff.ac.uk/residences](http://www.cardiff.ac.uk/residences)

You can also watch our residences film online at: [www.youtube.com/watch?v=hxzX-dYLfB8](http://www.youtube.com/watch?v=hxzX-dYLfB8)

### Students’ Union

-  [facebook.com/cardiffstudents](https://facebook.com/cardiffstudents)
-  [snapchat.com/add/cardiffstudents](https://snapchat.com/add/cardiffstudents)
-  [instagram.com/cardiffstudents](https://instagram.com/cardiffstudents)
-  [@cardiffstudents](https://twitter.com/cardiffstudents)
-  [www.youtube.com/cardiffstudents](http://www.youtube.com/cardiffstudents)

# Applications



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](http://www.ucas.ac.uk/apply)

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

## Entry requirements

These typical requirements are for guidance. Please check our website for latest information.

**A-level:** Typical offers would be in the range of AAB-ABB to include a B Grade in Chemistry and pass in the practical element, where applicable.

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 30-34 points, including a minimum of 5 in Chemistry at the Higher Level.

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

## Specific Subjects

**A-level:** Chemistry and ideally at least one other science or mathematical subject. General Studies and Critical Thinking are not accepted for entry.

## GCSE Requirements (or equivalent):

- Maths at Grade C or Grade 4.
- English or Welsh at Grade C or Grade 4

## Equality and diversity

We are committed to supporting, developing and promoting equality and diversity in all our practices and activities.

We aim to establish an inclusive culture free from discrimination and based upon the values of dignity, courtesy and respect. We recognise the right of every person to be treated in accordance with these values.

We are committed to advancing equality on the grounds of age, disability, gender reassignment, marriage and civil partnership, pregnancy and maternity, race, religion and belief (including lack of belief), sex and sexual

orientation and to fostering good relations between different groups.

For further information, please visit: [www.cardiff.ac.uk/public-information/equality-and-diversity](http://www.cardiff.ac.uk/public-information/equality-and-diversity)

## Applicants with Disabilities/ Specific Needs

All offers to study at Cardiff University are made solely based on 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](mailto:disability@cardiff.ac.uk)

## Applications *continued*



### Open Days

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](http://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@cardiff.ac.uk](mailto:chemistry@cardiff.ac.uk)  
Web: [www.cardiff.ac.uk/chemistry](http://www.cardiff.ac.uk/chemistry)

### Student support

Whether or not you use student support services it's reassuring to know that they are available to you should you need them. Every student is assigned a personal tutor but should you need extra support we have a range of services available to you. Such as;

- Disability and Dyslexia support
  - Email: [disability@cardiff.ac.uk](mailto:disability@cardiff.ac.uk)  
Tel: **+44 (0)29 2087 4844**
  - Email: [dyslexia@cardiff.ac.uk](mailto:dyslexia@cardiff.ac.uk)  
Tel: **+44(0) 29 2087 4844**
- Counselling and Wellbeing Guidance  
Email: [wellbeingandcounselling@cardiff.ac.uk](mailto:wellbeingandcounselling@cardiff.ac.uk)  
Tel: **+44 (0)29 2087 4966**
- International student support  
Email: [iss@cardiff.ac.uk](mailto:iss@cardiff.ac.uk)  
Tel: **+44 (0)29 2087 6009**
- Student mentor scheme  
[www.cardiff.ac.uk/study/student-life/student-support](http://www.cardiff.ac.uk/study/student-life/student-support)

### 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](http://www.cardiff.ac.uk/fees)

### Scholarships and bursaries

For more information please visit the following website: [www.cardiff.ac.uk/funding-ug](http://www.cardiff.ac.uk/funding-ug)

Useful websites for information about tuition fees and financial assistance:

Cardiff University website:  
[www.cardiff.ac.uk/fees](http://www.cardiff.ac.uk/fees)

Student Support Centre website:  
[www.cardiff.ac.uk/financialsupport](http://www.cardiff.ac.uk/financialsupport)

Student Finance Wales:  
[www.studentfinancewales.co.uk](http://www.studentfinancewales.co.uk)

Student Finance England:  
[www.direct.gov.uk/studentfinance](http://www.direct.gov.uk/studentfinance)

Student Loans Company: [www.slc.co.uk](http://www.slc.co.uk)



## Important Legal Information

The contents of this brochure relate to the Entry 2021 admissions cycle and are correct at the time of going to press in March 2020. 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 at: [www.cardiff.ac.uk](http://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.

Your degree: Students admitted to Cardiff University study for a Cardiff University degree.

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Thank you.

Cardiff University is a registered charity, no. 1136855

## How to find the School

The School of Chemistry is located within the North wing of Main Building, at the heart of our Cathays Campus. It's just a short walk from University Residences, the Students' Union and Cardiff city centre.

## Key

-  School Chemistry
-  University and NHS buildings
-  Student residences

This prospectus can be made available in alternative formats, including large print (text), Braille and on audio tape/CD.

To request an alternative format please contact Laura Roberts:

Tel: **029 2087 4455**

Email: [RobertsL9@cardiff.ac.uk](mailto:RobertsL9@cardiff.ac.uk)

**CARDIFF**  
UNIVERSITY

**PRIFYSGOL**  
**CAERDYDD**

To find out more about the  
School of Chemistry please visit  
our website:

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

## Contact us

Tel: **029 2087 4023**

Email: [chemistry@cardiff.ac.uk](mailto:chemistry@cardiff.ac.uk)

### School of Chemistry

Cardiff University  
Main Building  
Cardiff CF10 3AT

## Stay in touch

 [cardiffschoolofchemistry](https://www.facebook.com/cardiffschoolofchemistry)

 [@ChemistryCU](https://twitter.com/ChemistryCU)

 [@cardiffchemistry](https://www.instagram.com/cardiffchemistry)

## Student life

Got questions about student life?  
Get them answered at:

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

Want to know more about life at  
Cardiff University? Our student  
bloggers are recording their  
experiences and are happy to  
answer your questions.

Our student bloggers are real  
students studying on a range of  
courses. They are here to answer  
any questions you have about life at  
Cardiff University. What's a typical  
day like? What clubs and societies  
are there? Is Cardiff's music  
scene any good? It can be almost  
anything.

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