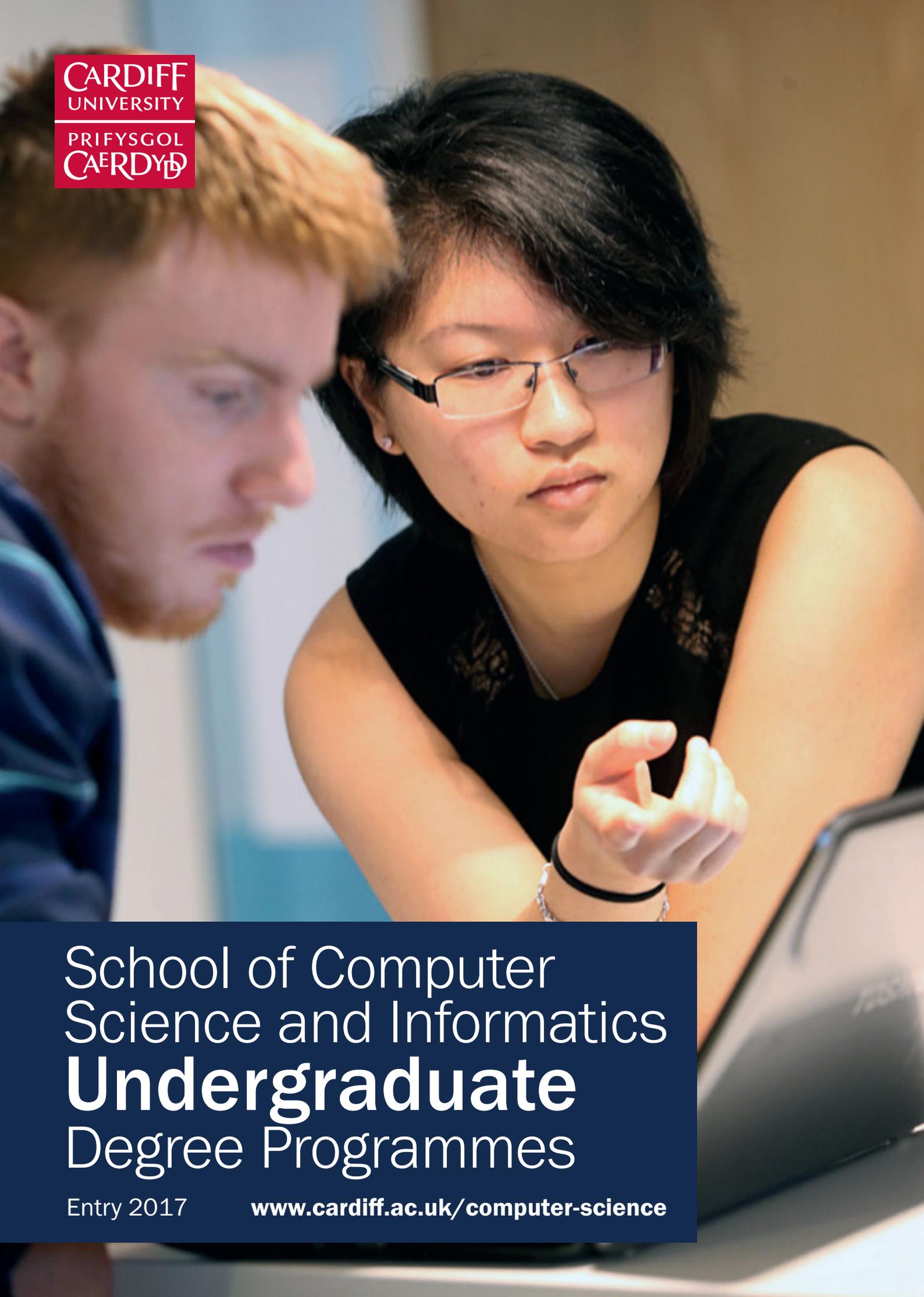




CARDIFF
UNIVERSITY



PRIFYSGOL
CAERDYDD



School of Computer
Science and Informatics
Undergraduate
Degree Programmes

Entry 2017

www.cardiff.ac.uk/computer-science

Cardiff University School of Computer Science and Informatics

**WORLD
LEADING
research**

**ACADEMIC
excellence**

**HIGH
EMPLOYABILITY**

**Transferable
SKILLS**





Friendly **Supportive** environment
Modern teaching laboratories

96% of our graduates
were in employment and/or further
study six months after graduating

Insider Information – Find out more...

Want to know what life at Cardiff is really like?

Our insiders are real students studying a range of subjects. You can read their blogs, post comments and message them on Facebook and Twitter.

To find out more go to: **www.cardiff.ac.uk/insiders**

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 - including one of the lowest average costs of living for university cities.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.

- ▶ You can be confident of your future prospects - typically, 96% 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

Notes

1. Moneysupermarket.com
Quality of Living Index 2015 /
Complete University Guide 2015
2. HESA Destination of Leavers
Survey 2014
3. High Fliers Research
The Graduate Market 2016



Welcome

The School of Computer Science and Informatics offers a range of flexible and diverse degree programmes to suit the different expectations and aspirations of today's students.



Based in Europe's youngest capital city, we are blessed with a great location and excellent facilities for you to reach your full potential.

The prospects for graduates in Computer Science from Cardiff University remain very strong, with 90% finding employment and/or further study six months after graduating. Our BSc in Computer Science offers the option of a placement year allowing students the opportunity to gain valued experience in paid employment. The programme combines a solid foundation of fundamental Computer Science concepts with research-led modules covering topics such as Artificial Intelligence, Multimedia, Data Processing, High Performance Computing, Computer Graphics, Security and Forensics.

Employability and innovative teaching are at the heart of our BSc Applied Software Engineering programme, with a focus on the skills, knowledge and hands-on experience required to be immediately effective as a commercial software engineer. Modules are delivered using small group teaching, with close interaction between students, academic staff and industry and an emphasis on up-to-date cloud, mobile and web technologies.

Our academic staff are enthusiastic technologists and computer scientists, being leaders in the areas of their expertise and keen to share their skills, knowledge and understanding. Much of the research that our School undertakes is internationally leading and part of our mission is to share the excitement of discovery and innovation with our students.

If you want to learn more about life in our School, please feel free to join us on Facebook and Twitter, and you are welcome to check out what our alumni are doing on LinkedIn. It would be a pleasure to see you in Cardiff, and on behalf of all staff here at the School of Computer Science and Informatics, may I wish you the best of luck with your future studies.



Dr Stuart Allen
Head of School

Contents

Cardiff: A capital city	4
Cardiff: A leading university	6
Living in Cardiff	8
Studying Computer Science and Informatics at Cardiff	10
School Life	12
Employability and Careers	14
Our Degree Programmes	15
BSc Computer Science and Specialist Degree Programmes	16
BSc Applied Software Engineering	18
Year in Industry	20
International Students	22
Research	23
Applications	24

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 2017 admissions cycle and are correct at the time of going to press in August 2016. 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

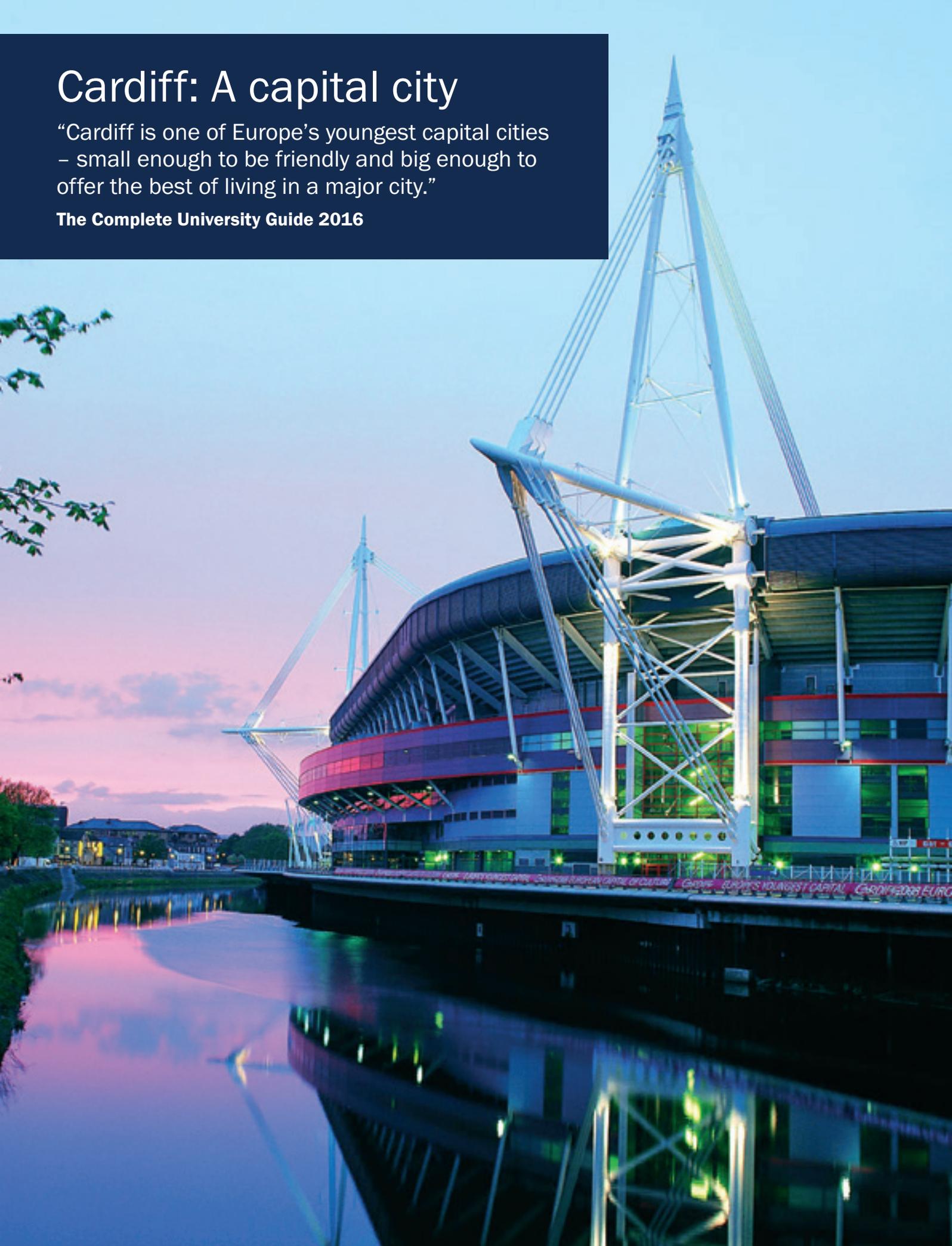
Tel: 029 2087 4455

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

Cardiff: A capital city

“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 2016



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 (Millennium) 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, and the Doctor Who Experience in Cardiff Bay is a popular attraction.

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 a popular student city, relatively inexpensive and with a good range of nightlife and cultural venues"

The Times/Sunday Times Good University Guide 2015



The surrounding countryside and coast offer superb opportunities for outdoor pursuits



Cardiff is one of the UK's best shopping destinations

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 seems to have it all: grand civic architecture in a breezy waterside location, super-smart city bars and venues just a short hop from lovely countryside."

Guardian University Guide 2016

The Wales Millennium Centre is a world-class venue for the arts

Cardiff: A leading university

“Cardiff University is one of Britain’s leading teaching and research universities.”

Telegraph Guide to UK Universities





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 university of first choice among well-prepared applicants.

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 ...

"The University is as confident and forward-looking as the city it's located in, and has an excellent reputation for the quality of its teaching and research."

Guardian University Guide 2016

"Cardiff is the perennial choice as the Sunday Times best Welsh University. It is the Principality's only member of the Russell Group of research-led universities and its sole representative in the top 200 of the world rankings."

The Times/Sunday Times Good University Guide 2015-2016



Living in Cardiff

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, 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 new food court, a bank, a print shop, a hair salon and a bookshop. The Lounge offers IT and Skyping facilities, meeting rooms and a "chillout" 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 ranked 3rd amongst the UK's top cities for quality of life. Research by moneysupermarket examined factors such as cost of living, average disposable income and life satisfaction in the UK's twelve biggest cities.

Moneysupermarket.com – Quality of Living Index 2015

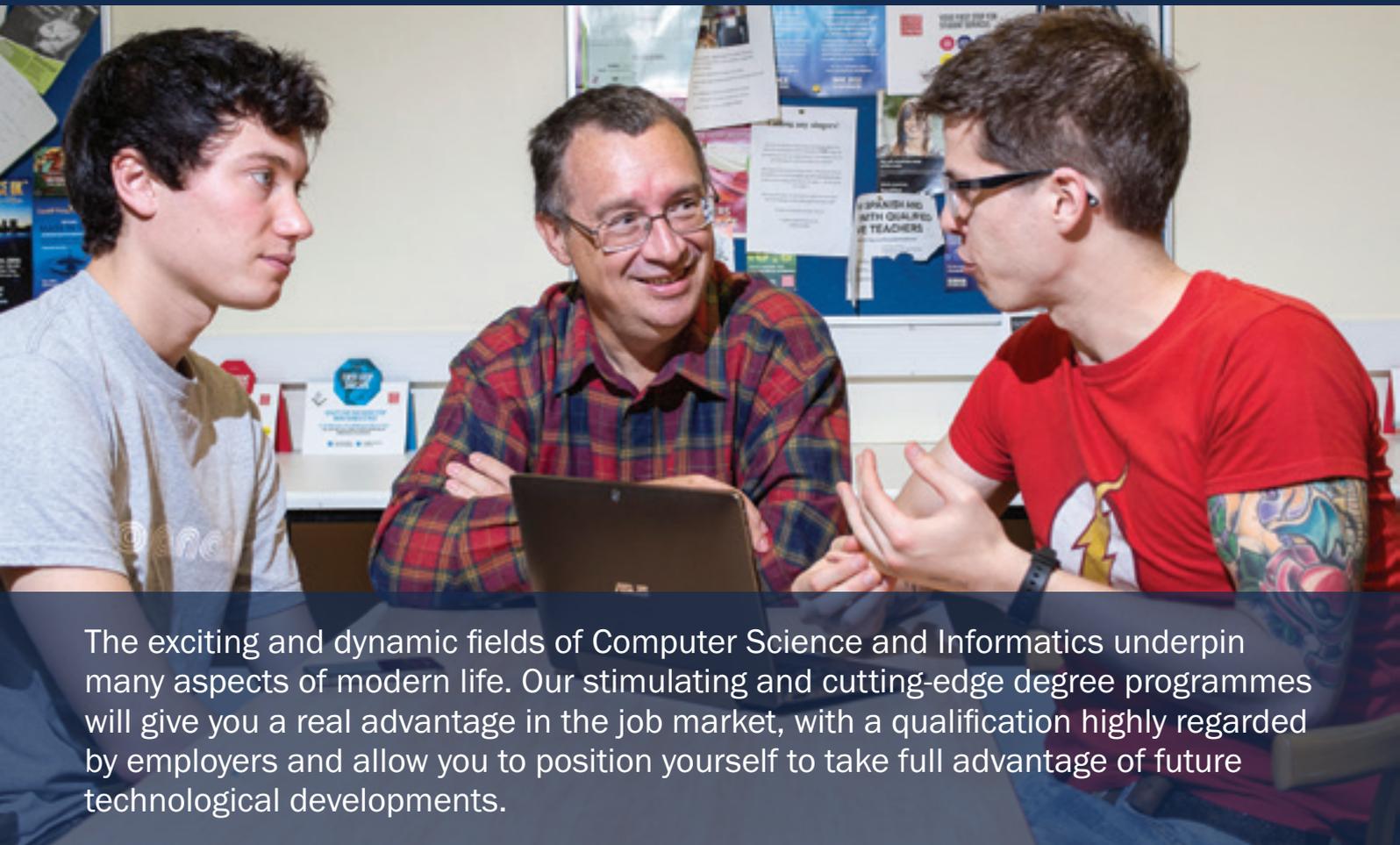
"The cost of living for a student in Cardiff is generally lower than elsewhere in the UK."

The Independent A-Z University Guide 2015

"Cardiff has one of the biggest, best and most active students' unions in the UK and is currently benefiting from a multi-million investment."

The Complete University Guide 2016

Studying Computer Science and Informatics at Cardiff



The exciting and dynamic fields of Computer Science and Informatics underpin many aspects of modern life. Our stimulating and cutting-edge degree programmes will give you a real advantage in the job market, with a qualification highly regarded by employers and allow you to position yourself to take full advantage of future technological developments.

Teaching, Learning and Assessment

You will be taught key skills such as programming through a combination of lectures and lab-based practical sessions for relevant modules. Further support mechanisms are used to help digest material such as example classes, tutorials and help sessions, amounting to a total of approximately 25 formal contact hours a week during year 1. Although the delivery mechanisms in years 2 and 3 mirror that of year 1, there are fewer formal contact hours at these latter stages in the programme, as the skills and insights needed to take control of your own learning experience have been acquired.

Teaching is organised in modules, split over two semesters (Autumn: 14 weeks, Spring: 17 weeks); in each there are 11 teaching weeks, followed by weeks dedicated to revision, projects and exams.

Your progress in each module will be assessed during and/or at the end of the semester in which it is taught. All modules include assessments, which are intended to assist your understanding and to provide you and your allocated tutors a means of assessing your progress. Methods of final assessment include written examinations and assessed coursework, and a combination of both.

Friendly Staff and Support

At the start of the course you are allocated a personal tutor, who is an academic member of staff in the School, and serves as a point of contact to advise on both academic and personal matters in an informal and confidential manner.

Your personal tutor will monitor your academic progress and will also supply references in support of any job applications that you make.

You will see your personal tutor at least every two weeks during your first year of study. During years 2 and 3 a reduced schedule of contact sessions is used, taking account of the increasing academic demands on you as you progress. Outside of scheduled tutor sessions, senior personal tutors run an open door policy, being on hand to advise and respond to any personal matters as they arise.

As a School, we pride ourselves on providing a supportive environment through which we are able to support our students with the majority of academic issues that arise. However, as always in life, there are things that can crop up that require more specialist help. The University provides a range of specialist services, all free of charge, that students can be referred to if needed. These encompass advice services covering health, careers, finances, counselling and personal development, to name a few.

Student Feedback Mechanisms

We believe that providing suitable feedback mechanisms is crucial to ensure that the best programmes of study are available to our students. The School has a student/staff panel consisting of members of teaching staff and elected student representatives who meet to discuss academic issues. Any issues that you feel need attention can be highlighted to your student representative, who will raise the query with the panel.

In conjunction with the work of the panel, all students are provided with an opportunity to complete feedback questionnaires at the end of the Autumn and Spring semesters. These mechanisms allow the School to constantly review courses and our students to receive best provision, delivered in a consistent manner, across all of our degree programmes.

Library Facilities

The School library is conveniently located in the Trevithick building, within the same complex as the School itself. Students can borrow up to 15 books at any one time, with a standard loan period of up to three weeks. Heavily demanded books, such as recommended texts, can usually only be borrowed for shorter periods of time. Some books can also be accessed electronically.

The library staff are on hand to offer specialist assistance and provide workshop training in information searching and literature research. The Trevithick Library also contains a PC

room, 24 open access computers, self service issue/return, 24 hour book return and bookable group study rooms, each equipped with a plasma screen.

School Facilities

The School has 5 well-resourced cross-platform laboratories, comprising Macs, Windows and Linux based machines, accessible solely by students from the School. The majority of these labs can be accessed on a 24/7 basis and provide our students with free printing facilities.

The University campus is covered by the Cardiff University Wireless Network, which is freely available upon registration to staff, students and invited guests, offering flexible access to online resources via laptop, tablet and Wi-Fi enabled phones.

Our facilities are consistently rated very highly among computing schools in the UK, by students voting in the annual National Student Survey.

Recognising Achievement

As a School we encourage our students to perform to the best of their ability, and aspire to be the best they can be during their time with us. We are proud to recognise and reward outstanding achievements and dedication with our annual Student Prize Giving Event, in which hard working students are rewarded with prizes sponsored by companies in the industry. This ties in with our strong links and reputation with major industry players, and provides our students with the opportunity to network and build up important future contacts.

National Software Academy

The School of Computer Science and Informatics has established a National Software Academy to produce highly employable, sought-after software engineers who will be recognised as leaders in their field.

This partnership between Cardiff University, Welsh Government and industry leaders, aims to address the national shortage of skilled programming and software engineering graduates.

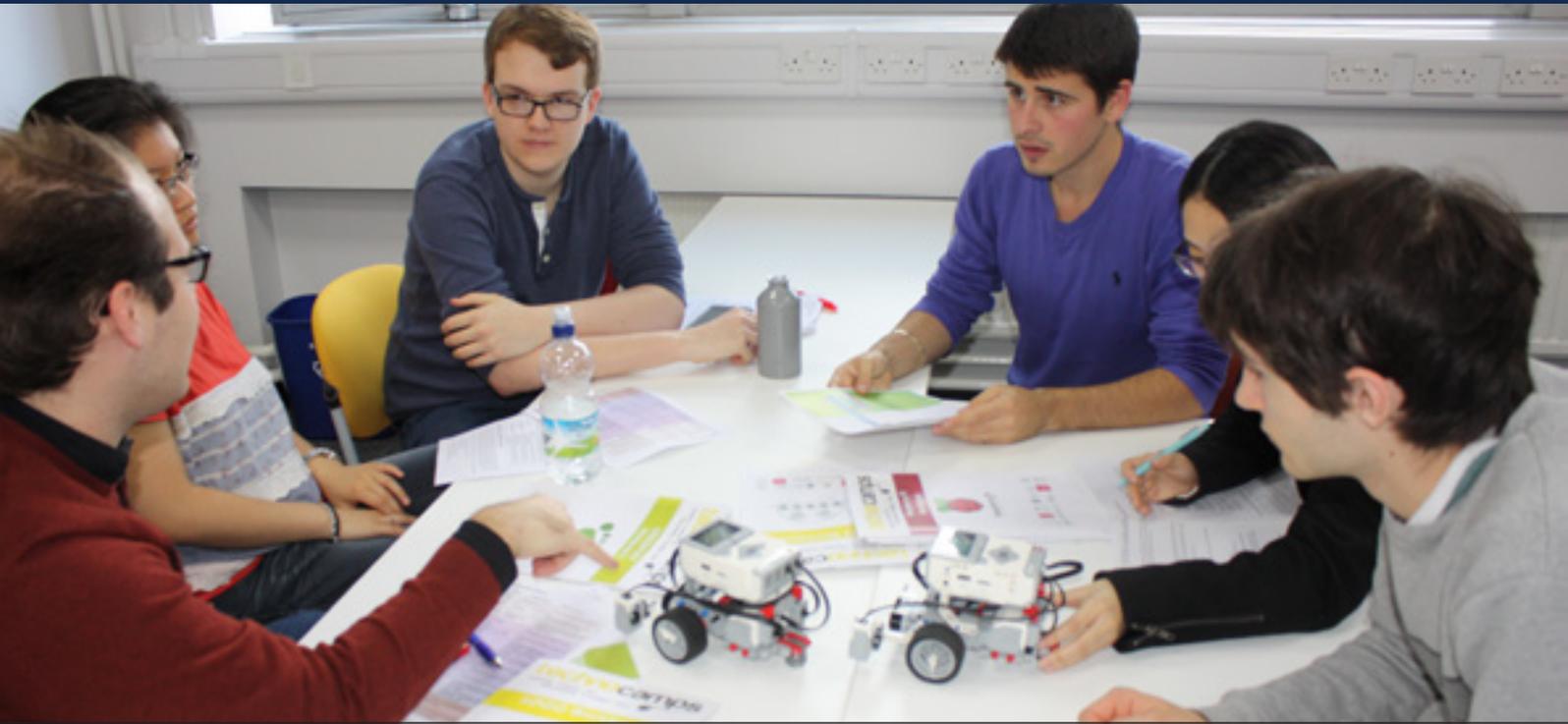
Based at The Platform, a new technology hub in Newport, the National Software Academy aims to deliver industry-focused degrees in software engineering, providing students with academic experience of relevant and leading-edge technologies delivered within an industrial framework, utilising industry-proven tools and techniques to facilitate transition into the job market.

To find out more about our BSc Applied Software Engineering being delivered at the National Software Academy, please find details on page 18-19.



School Life

We pride ourselves on our reputation of being a small, inclusive, friendly School, and recognise the importance of giving our students the opportunity to take part in extra activities if they wish. As the majority of our current students and successful graduates say, the more you put in during your time at university and get involved, the more you will get out of your experience with us.



We encourage students to get involved with the varied extracurricular activities that the School has to offer

Here is a taste of our School's popular extracurricular activities which you will be warmly encouraged to join:

Computer Club

All students at the School of Computer Science and Informatics are welcome to attend our popular Computing Club. Now established for a number of years, the Club goes from strength to strength with an informal mix of students and staff who come together to discuss ideas and experiment with an interesting mix of exciting technologies. Students are encouraged to set their own project goals and take ownership for future tasks and developments within the Club. Current Club members are keen to encourage new students to go along and join in. Computer Club gives members lots of opportunities to benefit from various positive experiences in a relaxed and friendly environment, where you can create from what you learn, and learn beyond your degree course, studying around your areas

of interest and looking at research, using devices like Kinect, Arduino and Lego Mindstorms. Events and trips to companies are also organised, such as to IBM Hursley, Bletchley Park and Renishaw, which have proved to be hugely popular and beneficial to all students who have gone along.

A student-led open-sourced Hackathon - in which teams share their skills and knowledge of computer programming to produce a program in a limited amount of time - has now become an annual fixture in the School's calendar and grown year-on-year, with companies such as Box UK, GCHQ and IBM providing sponsorship for previous events.

ComSci Society

The Computer Science and Informatics Society (ComSci) is an award winning society dedicated to the students of the School of Computer Science and Informatics. It is designed to allow students to interact freely with each other

outside of the academic environment. The aim is to provide students with the opportunity to socialise, network and gain greater knowledge about their chosen degree. Students mix across all degree schemes and years both within and outside the School of Computer Science and Informatics, allowing students interested in the subject and those currently studying a degree within the School to socialise together.

Megan Jevin,

ComSci President 2015-16

"We aim to provide a fun environment with frequent socials and charity events to help students not only enjoy their time at university, but contact with the community and give a little back."

Engagement

Our engagement work relates to public awareness, contributions to the local community and cooperation with industry. Students are provided with excellent opportunities to gain valuable experience in working with others to help make a valued contribution within the community, which looks great on a CV.

STEM Ambassador Scheme

The School has established a team of student STEM (Science, Technology, Engineering and Mathematics) Ambassadors who visit local primary and secondary schools to deliver workshops to pupils on coding and other important elements of computer science.

Following a hugely successful pilot year – in which ambassadors visited 14 schools around South Wales, reaching more than 100 pupils – we have recently recruited a new, larger batch of students as demand for the scheme grows.

Technocamps

The Ambassador scheme supports Cardiff University's work as a **Technocamps Hub** – a Welsh Government programme providing young people aged 11-19 with computing-based outreach sessions – enhancing the new computer science curriculum in schools and giving school students and teachers an appreciation of computer science at university level.

Our students deliver Technocamps workshops using introductory programming languages such as Logo, Python, Scratch and Greenfoot, providing a gentle and fun introduction to computer science.

Ambassadors have also contributed to activities within the School of Computer Science and Informatics, assisting at Teacher CPD workshops, University Open Days and College events such as the STEM Conference and STEM Live events.

All students are welcome to volunteer as an ambassador. You will be provided with information at the start of your studies with us – usually during induction week – and will receive plenty of training, advice and support from relevant staff and fellow students already involved in the scheme.

Jamie Hall, BSc Computer Science

“The Computing Club is great because it’s an opportunity to get to know students in other years, as well as staff we might not be lectured by, and to socialise and work together on a weekly basis. It’s fantastic for enabling us to try out new things and learn more about what we’re interested in. I’ve learned so many interesting technologies and skills, while meeting new mates and getting the most out of my degree.”



A popular student-led open-sourced Hackathon has become an annual fixture in the School's calendar

Employability and Careers

Employment prospects for our graduates in the computing and ICT industry are excellent. Our graduates are equipped with the transferable skills that open doors to careers in all sectors of the economy.



Rob Hemsley
Software Developer at Shaper
Graduated from BSc Computer Science with a 1st

I had a fantastic experience studying at Cardiff as I was given the support and encouragement to experiment and explore in and around the course. The lecturers are truly passionate about their work and so lectures provided a real insight into their research and the foundations of the discipline. I particularly enjoyed doing my final year project where I was able to propose and undertake a project on a topic of my choosing. The department also has some great opportunities to learn new skills outside of the course at groups such as the Computer Club to experiment with new exciting technologies. Having the trust, support and access to leading researchers at Cardiff helped to build my skills and portfolio of work that enabled me to apply to MIT (Massachusetts Institute of Technology) and gain a position within the Media Lab research group.



Richard Coombs
Robotics Software Engineer at Dyson
Graduated from BSc Computer Science with a 1st

I very much enjoyed my Computer Science degree at Cardiff. The School is very well equipped and supportive, making my degree a thoroughly enjoyable experience. As I graduated a few years ago, I have been able to see just how well my degree has helped me start a prosperous career. I am still pleased that I read Computer Science as it is vocational and leaves you with many career options. Personally, I chose to stay at the School to undertake research for a PhD in the field of opportunistic networks - I even did some teaching. I was then able to get a job developing safety-critical air traffic control software at Altran. Now, I work with embedded systems as a Robotic Software Engineer at Dyson. My degree has already provided me with several interesting and varied career options, for which I am very grateful!



Louise Knight
PhD Student at Cardiff University
Graduated from BSc Computer Science with a 1st

The Computer Science degree at Cardiff is great as it allows you to keep your studies as broad or as specialised as you wish (according to the optional modules you choose later on). I myself kept things broad until the end of my second year, at which point I undertook a summer research project with one of my lecturers. This project was aimed at speeding up some algorithms using parallel computing. I did some reading on where those algorithms were used, and found out about the field of Bioinformatics (using Computer Science to solve problems in Medicine). I found it fascinating, and am now into the third year of my Bioinformatics PhD. It's only now that I'm on "the other side"; doing things like tutoring lab classes and tutorials, that I realise really how much effort the teaching staff put into their modules behind the scenes. The lecturers here, on the whole, have an open-door policy, where you can easily ask questions, and I really appreciated that when I was an undergraduate.



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/studentsupport

Our Degree Programmes

The School of Computer Science and Informatics aims to educate and inspire the next generation of national and international leaders in the discipline.

We regularly review and update our degrees to ensure the content is both contemporary and relevant.

Our BSc Computer Science degrees aim to give you a dynamic, theory-based and practical understanding of computer science. These degrees are accredited by the BCS, the Chartered Institute for IT.

They are informed by the latest internationally recognised research coming from our School, and taught by experts in their field.

We are pleased to offer our Computer Science degrees with the option to take a year of paid professional placement in industry between Years Two and Three. Please see pages 20-21 for further information.

The BSc Applied Software Engineering degree aims to produce work-ready software engineers with a hands-on approach, working directly with industry.

This degree is taught from the National Software Academy, a part of the School of Computer Science and Informatics. All teaching and learning is centred around the delivery of real-life industry projects, a key distinguishing feature of the degree.

You will work side-by-side with your fellow students and lecturers, leveraging a support network of industrial mentors and industry experts to create innovative software for real clients, in an energetic start-up atmosphere.

We place a strong emphasis on employability, and have established an External Advisory Board (EAB) made up of successful figures from industry and academia who provide guidance, insight and feedback on our learning and teaching. Members help the School to address questions around computing trends, employability and skills, and curriculum development.



Title	UCAS Code	Duration
BSc Applied Software Engineering	4JVD	3 years
BSc Computer Science	G400	3 years
BSc Computer Science with Year in Industry	G401	4 years
BSc Computer Science with High Performance Computing	GLGK	3 years
BSc Computer Science with High Performance Computing with Year in Industry	GKGL	4 years
BSc Computer Science with Security and Forensics	G4F4	3 years
BSc Computer Science with Security and Forensics with Year in Industry	GKF4	4 years
BSc Computer Science with Visual Computing	G4G7	3 years
BSc Computer Science with Visual Computing with Year in Industry	GKG7	4 years



Our Computer Science and Applied Software Engineering degrees are contemporary and relevant

BSc Computer Science and Specialist Degree Programmes

BSc Computer Science

Overview

The exciting and dynamic world of computer science is at the heart of many aspects of modern life, and the BSc Computer Science at Cardiff will give you both the theoretical and practical knowledge needed to help you become a part of that world.

You will develop transferable technical, analytical and professional skills, supported by a broad awareness of current technology trends. The course covers a mixture of core techniques and concepts and evolving, technology-based subject matter.

Graduates are able to objectively analyse problems and develop appropriate computational solutions. Your detailed understanding of technology will make you suitable for a range of professional careers and sought-after by employers.

BSc Computer Science is also available as a 4 year degree with a Year in Industry – see pages 20-21 for further details.

About the course

This three-year course begins by introducing basic computing skills and concepts which will underpin the degree. Short projects in year one are followed by a substantial team project in year two, when you use new skills and knowledge to design and implement a software system. In year three, you focus on

emerging technologies and research-led options, and undertake an individual project centred on your own interests.

All BSc Computer Science degrees (including specialisms) begin with a common first year.

Year One

The course does not require any prior knowledge or experience of computer science. The modules taught in your first year are designed to introduce the fundamental computing skills and concepts that will form the basis of your degree.

All Computer Science degrees begin with a month-long module called Computational Thinking, which aims to improve the transition from the classroom to the lecture theatre and increase your understanding of what you can achieve within your degree.

Whilst introducing you to the fundamental aspects of computer programming, architecture and design, the Computational Thinking module also offers you an opportunity to develop key skills such as problem solving, reflection, communication and group work, all of which will support your future studies and eventual transition into the work place. This has helped previous students gain more confidence and reassurance through communication with peers who are all facing the same challenges.

Further modules in your first year will build on your understanding of the programming of algorithms using languages such as Python and Java™, an understanding of Internet and web technologies, computer architecture and operating systems, software engineering principles and mathematics for computer science.

Year Two

Building on the foundations of the first year, the modules taught in the second year expand your understanding, skills and experience by introducing more advanced topics. Some choice is also introduced through optional modules. The structure and processing of data is further explored and simple algorithms are expanded into applications that are able to communicate via networks. Skills developed so far are applied during a team project to professionally design and implement a software system.

Year Three

In year three you will focus on emerging technologies and advanced topics which are often informed by the School's research. There are a number of optional modules to choose from depending on your specific interests. Contemporary topics include computer security and forensics investigation, high performance computing, artificial intelligence, computer vision, graphics, and multimedia. You will complete an individual project under staff supervision, driven by your interests.

Year One Modules		Semester	Credits	BSc Computer Science	BSc Computer Science with High Performance Computing	BSc Computer Science with Security & Forensics	BSc Computer Science with Visual Computing
Module code	Module title						
Key: A – Autumn S – Spring AS – Both semesters ■ Compulsory module ● Optional module							
CM1101	Computational Thinking	A	20	■	■	■	■
CM1102	Web Applications	AS	20	■	■	■	■
CM1103	Problem Solving With Python	A	20	■	■	■	■
CM1201	Professional Skills	A	10	■	■	■	■
CM1202	Developing Quality Software	S	20	■	■	■	■
CM1205	Architecture and Operating Systems	S	10	■	■	■	■
CM1208	Maths for Computer Science	S	10	■	■	■	■
CM1209	Object Oriented Java Programming	S	10	■	■	■	■

Year Two Modules		Semester	Credits	BSc Computer Science	BSc Computer Science with High Performance Computing	BSc Computer Science with Security & Forensics	BSc Computer Science with Visual Computing
Module code	Module title						
Key: A – Autumn S – Spring AS – Both semesters ■ Compulsory module ● Optional module							
CM2101	Human Computer Interaction	S	10	■	■	■	■
CM2102	Database Systems	A	10	■	■	■	■
CM2104	Computational Mathematics	A	10	●	●	●	■
CM2105	Data Processing and Visualisation	A	10	●	●	●	
CM2201	Object Oriented Applications	A	10	■	■	■	■
CM2203	Informatics	S	10	●	●	●	●
CM2207	Introduction to the Theory of Computation	S	10	●	●	●	●
CM2208	Scientific Computing	S	10	●	●	●	■
CM2302	Communication Networks and Pervasive Computing	AS	20	■	■	■	■
CM2303	Algorithms and Data Structures	AS	20	■	■	■	■
CM2305	Group Project	AS	20	■	■	■	■

Year Three Modules		Semester	Credits	BSc Computer Science	BSc Computer Science with High Performance Computing	BSc Computer Science with Security & Forensics	BSc Computer Science with Visual Computing
Module code	Module title						
Key: A – Autumn S – Spring AS – Both semesters ■ Compulsory module ● Optional module							
CM3103	High Performance Computing	A	20	●	■		
CM3104	Large-Scale Databases	A	20	●	●	■	
CM3106	Multimedia	A	20	●			■
CM3107	Knowledge Management	A	20	●	●	●	
CM3109	Combinatorial Optimisation	A	10	●	●	●	■
CM3110	Security	A	10	●		■	
CM3111	Forensics	A	10	●		■	
CM3112	Artificial Intelligence	A	10	●	●	●	■
CM3113	Computer Vision	A	10	●			■
CM3114	Graphics	A	10	●			■
CM3202	Emerging Technologies	S	20	■	■	■	■
CM3203	One Semester Individual Project	S	40	■	■	■	■

Specialist Degree Programmes

We offer themed versions of the BSc Computer Science degree programme, with pre-defined third year module choices that offer you the opportunity to specialise in well-regarded areas of the discipline:

BSc Computer Science with High Performance Computing

BSc Computer Science with High Performance Computing is concerned with the efficient application of often large-scale, distributed computing resources, such as groups of computers or dedicated graphics processing hardware. You will focus your studies on understanding and applying sound computing principles in this complex and

evolving area of computer science. Your year 3 modules will emphasise the nature of parallel and distributed computation in these environments and some of the challenges presented by cloud computing.

BSc Computer Science with Security and Forensics

An increase in the business use of Internet-based applications and the rise in computer based crime, together with the impact of applications such as Facebook and Twitter, has changed the nature of security risks making Security and Forensics of real value to employers. This three year degree programme at Cardiff will provide you with a firm understanding of the principles, tools and technologies needed to ensure that an

organisation's investment in Information and Communications Technology meets its needs in a secure manner.

BSc Computer Science with Visual Computing

The Computer Science with Visual Computing degree will give you an understanding of both the theoretical and practical aspects of Computer Science, while focusing on the challenging area of visual computing. You will learn how computers can obtain, manipulate, represent and understand visual data, such as images, video and 3D scenes. In addition, you will develop and practice in-depth technical skills in areas such as graphics, image processing and visualization.

BSc Applied Software Engineering



Overview

The BSc Applied Software Engineering aims to make you a highly employable software engineer, with the skills, knowledge and hands-on experience required to be effective as a commercial software engineer upon graduation. The course aims to develop your abilities for creating software-based solutions to real problems in a dynamic, tech start-up atmosphere.

This innovative degree is taught from the recently established National Software Academy in Newport, where you will gain experience in hands-on software development using current commercial tools and techniques coupled with direct industrial involvement.

The course syllabus has been designed in close collaboration with industry. We focus on cloud, mobile and web development, with an emphasis on technology and standard industry practices.

About the Course

A key distinguishing feature of this degree is that all theory, teaching and learning will be explored through real world software development projects. Students work individually and in teams to manage, design, code, test and maintain high quality software.

Working alongside fellow students and staff, you will be at the centre of a teaching network which includes industry mentors and industrial experts, each of whom will offer their insight into how software engineering actually works in practice. Software developed as part of the course will be presented back to real business customers.

You will learn and apply skills in an environment that feels less like a lecture theatre or laboratory and more like a software development company. From the earliest days on the course, you will be immersed in a project environment where communication, planning and teamwork skills will be developed and where you will learn how to make effective use of your skills and your time to deliver value.

Year 1

In year one you learn to think like a programmer and begin to code in a professional manner. You will work primarily with languages such as JavaScript, Java and Python to design, develop and deploy mobile and web applications according to the needs of customers. You will learn how to use the same industry-standard tools that are used by real-world developers, following best-practice to develop quality software. You will begin to develop

your professional skills, including communication and project management and the principles of agile development.

Year 2

In year two, you will work on larger, more complex and technically difficult projects. You will expand your knowledge in areas such as performance and scalability, databases, security and DevOps. This will be necessary to support the scale, resilience and security needs of your cloud-based enterprise solutions. At this point you are expected to be leading project meetings to plan and manage development work for a team, and regularly holding meetings with customers.

Year 3

In the final year you will learn about emerging trends, and use them to develop a product of real commercial value. You will collaborate with other development teams and lead customer meetings. By the end of the course you should be an experienced and professional software developer, with knowledge of key programming languages, techniques and technologies. Project reflection is encouraged to develop pragmatism and judgement as students enter the workplace.

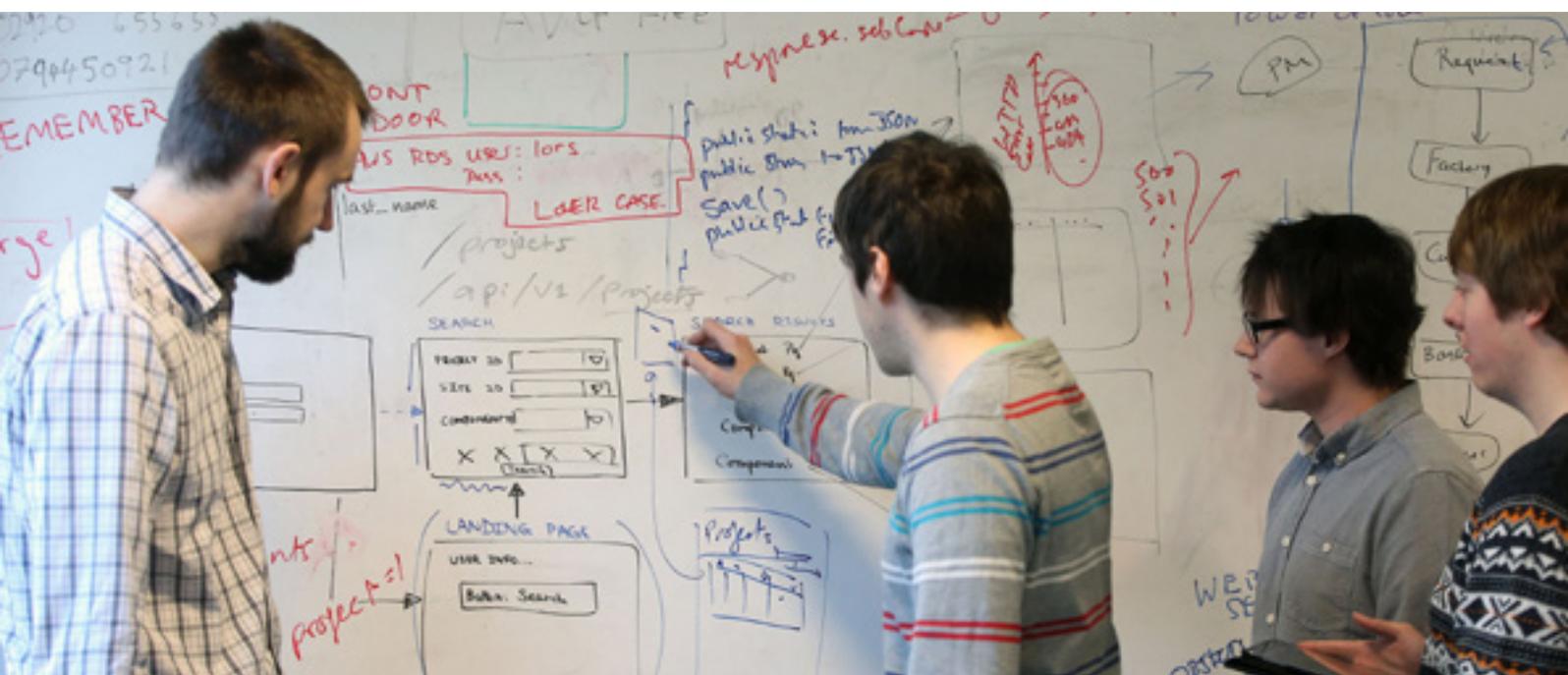
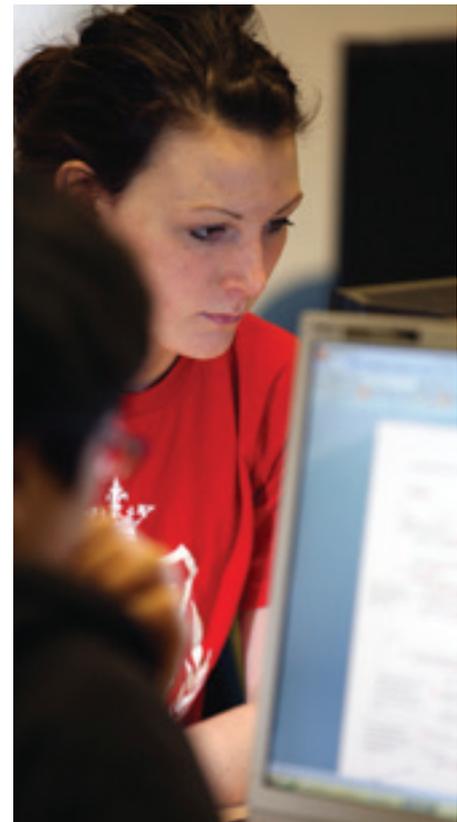
BSc Applied Software Engineering Modules

Year One Modules		Semester	Credits
Module code	Module title		
Key: A – Autumn S – Spring AS – Both semesters All modules are compulsory			
CM6112	Introduction to Web Development	A	20
CM6113	Software Development Skills 1	A	20
CM6114	Computational Thinking	A	20
CM6121	Fundamentals of Computing with Java	S	20
CM6122	Mobile Development with Android	S	20
CM6123	Software Development Skills 2	S	20

Year Two Modules		Semester	Credits
Module code	Module title		
Key: A – Autumn S – Spring AS – Both semesters All modules are compulsory			
CM6211	Database Systems	A	20
CM6212	DevOps	AS	20
CM6213	Commercial Applications with Java	A	20
CM6221	Security	S	20
CM6222	Performance and Scalability	S	20
CM6223	Agile Project Management	AS	20

Year Three Modules		Semester	Credits
Module code	Module title		
Key: A – Autumn S – Spring AS – Both semesters All modules are compulsory			
CM6311	Alternative Commercial Development Languages	A	20
CM6312	Emerging Technology 1	A	20
CM6321	Emerging Technology 2	S	20
CM6331	Multi-Team Project	AS	20
CM6332	Multi-Team Project Reflection	AS	20

This degree is delivered at the National Software Academy in the heart of Newport's exciting technology hub. Journey time from Cardiff to Newport is 12 minutes by train, and the Academy is situated next to Newport railway station. All travel costs are included in the degree. As a student of Cardiff University, you will still enjoy full and unlimited access to all Cardiff University facilities and services.



Year in Industry



To ensure you really stand out from the crowd in the competitive job market, we offer students the exciting opportunity to undertake your degree over four years with a salaried Year in Industry.

How does it work?

Your Year in Industry will normally last between ten and twelve months, taking place between taught years two and three, allowing you to practice and apply the new skills you will have learned so far. To progress for the Year in Industry you will need to have maintained an overall average of at least 50 percent and secured a suitable work placement. You will return to university following successful completion of your work placement at the start of the Autumn semester for your final year of studies. A further benefit of choosing our Year in Industry option is that you may be able to draw upon the practical real life situations you encounter during your placement and incorporate it into your final year project.

Whilst students are responsible for finding their own placements, the School has a dedicated Placement Officer to ensure you have access to a broad variety of opportunities, and that you receive constant support and guidance throughout the whole process.

International information

If you are an international student, it is possible for work placements to be undertaken overseas, allowing you to carry out your industrial placement in your home country if you are able to secure a suitable position. (As with UK placements, this would be subject to the School's Board of Studies deeming the placements as suitable). Under current UK BA Tier 4 visa regulations international students can undertake paid work for up to 50% of their visit duration.

Further information

Students who are registered on a Year in Industry programme but who are unable to secure a suitable placement, will transfer their registration to the equivalent degree programme without placement and continue their studies by proceeding onto taught year three in the Autumn semester, following successful completion of taught year two, making their programme a three year degree.

It is expected that students on a Year in Industry will be paid by the companies or institutions for the duration of the placement.

Tuition fees for the Year in Industry are set at 20% of the full yearly tuition fee.

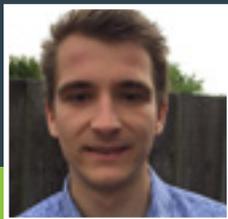
The School does not guarantee that a placement can be found for all students.

Summer Placements

The School also encourages students to undertake a work placement during the Summer months. Many of our students take advantage of gaining this valuable work experience, with some even being offered permanent positions on completion of their degree.

We have a great tradition of being involved with CUROP (Cardiff Undergraduate Research Opportunities Programme), which provides summer placements for Cardiff University undergraduates in the University research environment. CUROP students have completed projects in areas related to image analysis, visual computing, artificial intelligence, machine learning and digital signal processing.

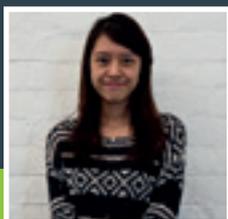
Year in Industry Student Profiles



Billy Hickman
BSc Computer Science

“My placement was at Airbus Group, an umbrella company for multiple Aeronautics, Defence and Space related companies. The University has a close research relationship with Airbus Group, which allowed me to contact a manager directly and discuss potential placement opportunities. My role was in ‘Software Development’, helping to program technical solutions within different projects taking place within the team. I was able to work on different programming tasks that improved my technical ability, and I also improved my own personal development, including my ability to present and how to communicate in a professional manner.

The Year in Industry option provides an opportunity to not only broaden your learning away from an academic environment, but also allows you to consider your future job without any long-term commitments.”



Deborah Khoo
BSc Computer Science

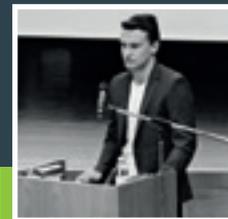
“I did the Year in Industry because I wanted some work experience before I graduate. Through this one year work experience, I am able to understand the theory I learned in my second year better, and apply them. I feel more confident going back to do my final year.”



Matthew Nunes
BSc Computer Science

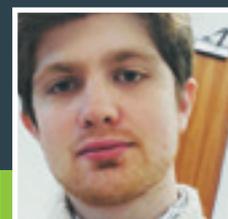
“I embarked on a year-long placement with Serena Software, a company that specialises in Software Change and Configuration Management. Getting a placement was difficult, however, if you’re willing to put in the time and keep knocking on doors, you will secure a placement. I suffered eleven rejections before actually getting the placement that I did. During the placement, I dipped my toe in a variety of products and teams. The work I did was gradually scaled up. To start, I carried out research projects to better understand the products that my company was offering, then I implemented tools that worked alongside our products, next I actually debugged our products, and finally I added features to existing products.

My advice to potential placement students is to make the effort to secure the placement as though it can be stressful, the gains are well worth the effort.”



Thomas Townsend
BSc Computer Science

“My Year in Industry at Roxar Software Solution has greatly improved my understanding of how collaboration and team tools enhance the effectiveness of a team’s ability to deliver quality software. I chose to do this Year in Industry to learn the skills which university cannot teach, and I was not disappointed.”



Gregory Nichols
BSc Computer Science

“I decided to do a placement because after the end of my second year I was unsure what I wanted to do for my third year project or what path I wanted to take myself after university had finished. Doing a placement year has greatly improved not only my technical ability but taught me about putting the theory I learnt during my first 2 years into practice in the real world. I would highly recommend it for anyone worried about their success in the final year or their future after university.”

Students who have opted to take their degree with a salaried Year in Industry have secured placements with companies including:

- ▶ Accenture
- ▶ Airbus
- ▶ The Alacrity Foundation
- ▶ Bank of Ireland
- ▶ Boeing
- ▶ The Body Shop
- ▶ Cardiff University
- ▶ CERN
- ▶ Esys
- ▶ GE Aviation
- ▶ GE Oil and Gas
- ▶ GSK
- ▶ Hewlett Packard
- ▶ JP Morgan Chaseldeoba
- ▶ Lloyds
- ▶ Microsoft
- ▶ Porsche
- ▶ Red Bull Racing
- ▶ Renishaw
- ▶ Science and Technology Facilities

International Students

Cardiff University has a long tradition of welcoming international students. With more than 4,000 students from more than 100 countries, the University enjoys the many benefits of multiculturalism.

Cardiff University is currently home to more than 4,000 international students. Whatever your chosen field of study, you can be sure that you will be working with internationally respected academics, enjoying a great social life and making lifelong friends from across the world.

In recent years, international students joining us here at the School of Computer Science and Informatics at undergraduate level have increased significantly, and we are pleased to welcome students from all over the world. Malaysia, Saudi Arabia, India, and China are well represented, with other students coming from Nigeria, Pakistan, Qatar, USA, Hong Kong and Egypt. 45% of the School's international cohort studies at undergraduate level, which far exceeds the UK average of 34%.

Fees and Scholarships for International Students

Fees are reviewed on an annual basis. As an indicator, the fees for 2016-17 were set at £18,250. A number of partial scholarships are usually made available each year on a competitive basis. Details will be made available to offer holders, or you can contact pse-international@cardiff.ac.uk to enquire.

Support for International Students

The University provides all the information and support necessary to help ease the transition to life as a student at Cardiff. Once you have been made an offer here you will receive advice on immigration, visas, healthcare, climate and living in Cardiff.

We can arrange to collect you by coach from Cardiff or Heathrow airports.

We provide an induction programme and, in the week before enrolment, there are various social events and visits to introduce you to Cardiff and to welcome you to Wales.

Web: www.cardiff.ac.uk/international

Study Skills Assistance

Throughout the year the University's English Language Programmes Office provides English language and writing courses to international students studying at Cardiff.

Web: www.cardiff.ac.uk/elt

Further Information

**International Admissions Office:
School of Computer Science
and Informatics**

Tel: +44 (0)29 2087 6436

Email: pse-international@cardiff.ac.uk

Web: www.cs.cardiff.ac.uk

Web: www.cardiff.ac.uk/international

**The English Language
Programmes Office**

Tel: +44 (0)29 2087 6587

Fax: +44 (0)29 2087 6141

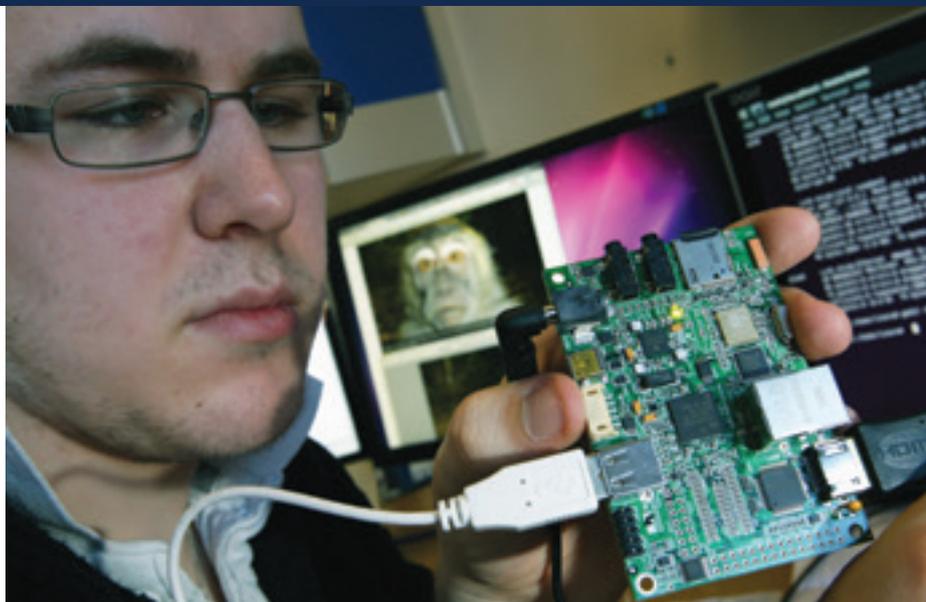
Email: elt@cardiff.ac.uk

Web: www.cardiff.ac.uk/elt



Research

Researchers at the School of Computer Science and Informatics are constantly working on new developments in areas such as visual computing, security and data privacy and social computing.



Complex Systems

Our research spans four key themes: (i) cybersecurity; (ii) social and mobile computing; (iii) parallel and distributed systems; (iv) multi-criteria optimization and mathematical modelling.

Underpinning these key areas are issues of scale and complexity, with a particular emphasis on human/systems interaction. Most of the research is carried out in collaboration with colleagues internationally (in Europe, US, Singapore and Australia).

Our cybersecurity work covers aspects of information and mobile data security and location privacy, cyber risk in online social networks (e.g. malware propagation and analysis), security of industrial control systems (e.g. SCADA systems) and Cloud security.

Our work in mobile and social computation covers aspects of machine classification and statistical modelling of online social behaviour, understanding human personality, studying interaction with smart phones, and data science-based approaches for assessing risk to human safety.

Our parallel and distributed systems work focuses on high performance and distributed systems, covering various aspects of large-scale distributed

systems management and performance analysis (such as Edge and Social Clouds), personal "Data Lakes" and scientific workflow systems. There is also more fundamental work in numerical algorithms and mapping of these to GPUs. This work closely aligns with efforts in multi-criteria optimization and mathematical modelling.

Data and Knowledge Engineering

School research in the field of data and knowledge engineering specialises primarily in knowledge representation & reasoning, machine learning & data mining, and mobile & spatial informatics.

Our research is embedded in a variety of application domains, where we work closely with end-users. We develop novel techniques for capturing, modelling and processing information, to support knowledgeable decision-making.

Our expertise spans several core areas of artificial intelligence and informatics, including knowledge representation and reasoning, machine learning and data mining, and distributed intelligent systems.

The group's research in knowledge representation and reasoning addresses a variety of formalisms, including logics

of argumentation and non-monotonic reasoning, lexically-informed logics, and controlled natural language.

Our strengths in machine learning include text analytics, natural language processing, and privacy-protection in data mining.

Group members' interests in distributed intelligent systems include context-aware decision support, sensor informatics, and heterogeneous information management using ontological approaches.

Visual Computing

Our research in visual computing spans a wide range of topics in the fields of computer vision, computer graphics, geometric computing and both image and video processing. A significant theme in our work considers the input, description and editing of solids, surfaces and curves. These are represented analytically, as CAD models and as meshes.

Other aspects of our work include the analysis, use and generation of static data such as images, surface meshes and 3D depth scans, as well as time varying data such as video and 4D scans of moving objects.

The impact of our research in this field includes:

- Applications of geometric and image processing algorithms with many interdisciplinary partners
- Avoiding antisocial behaviour by modelling crowd behaviour
- CAD algorithms developed jointly with leading UK CAD supplier
- Reverse engineering algorithms used in world leading commercial systems

For further information on research at our School visit: cs.cf.ac.uk/research

Applications

UCAS Codes

BSc Applied Software Engineering:	4JVD
BSc Computer Science:	G400
BSc Computer Science with Year in Industry:	G401
BSc Computer Science with High Performance Computing:	GLGK
BSc Computer Science with High Performance Computing with Year in Industry:	GKGL
BSc Computer Science with Security and Forensics:	G4F4
BSc Computer Science with Security and Forensics with Year in Industry:	GKF4
BSc Computer Science with Visual Computing:	G4G7
BSc Computer Science with Visual Computing with Year in Industry:	GKG7

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 onto: www.ucas.ac.uk/apply

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

Entry Requirements

BSc Computer Science, BSc Applied Software Engineering

Typical A-level Offer: **AAB - ABB**

Typical WBQ Offer: **WBQ will usually be accepted as an equivalent to one A-level.**

Typical Int Bacc Offer: **33 points**

Other: Applications from those offering alternative qualifications are welcome. Please see detailed admissions and selection criteria for more information.

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 is excluded.

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

Grade C in Mathematics required for BSc Applied Software Engineering.

Applications Information

Typical intake: **120**

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 socio-economic 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. The Disability Adviser can be contacted at:

Student Support Centre

50 Park Place, Cardiff CF10 3AT

Tel/Minicom: **+44 (0)29 2087 4844**

Email: studentsupport@cardiff.ac.uk

Deferred Entry

The School has no objection to the possibility of deferred entry and the admissions tutor would be happy to discuss this further with you. 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 BSc Computer Science programmes, please contact:

Dr Jianhua Shao, School of Computer Science and Informatics

Cardiff University, Queen's Buildings, 5 The Parade, Roath, Cardiff CF24 3AA

Tel: **029 2087 4812**

Email: comsc-ug@cardiff.ac.uk

www.cardiff.ac.uk/computer-science

For information on applying and enrolling on the BSc Applied Software Engineering programme, please contact:

Dr Chris Gwilliams, School of Computer Science and Informatics

Cardiff University, Queen's Buildings, 5 The Parade, Roath, Cardiff CF24 3AA

Tel: **029 2068 8694**

Email: c.gwilliams@cs.cardiff.ac.uk

www.cardiff.ac.uk/computer-science

All International Admissions enquiries should go to:

pse-international@cardiff.ac.uk

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/scholarships

Open Days

University-wide Open Days are held throughout the year and provide 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

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

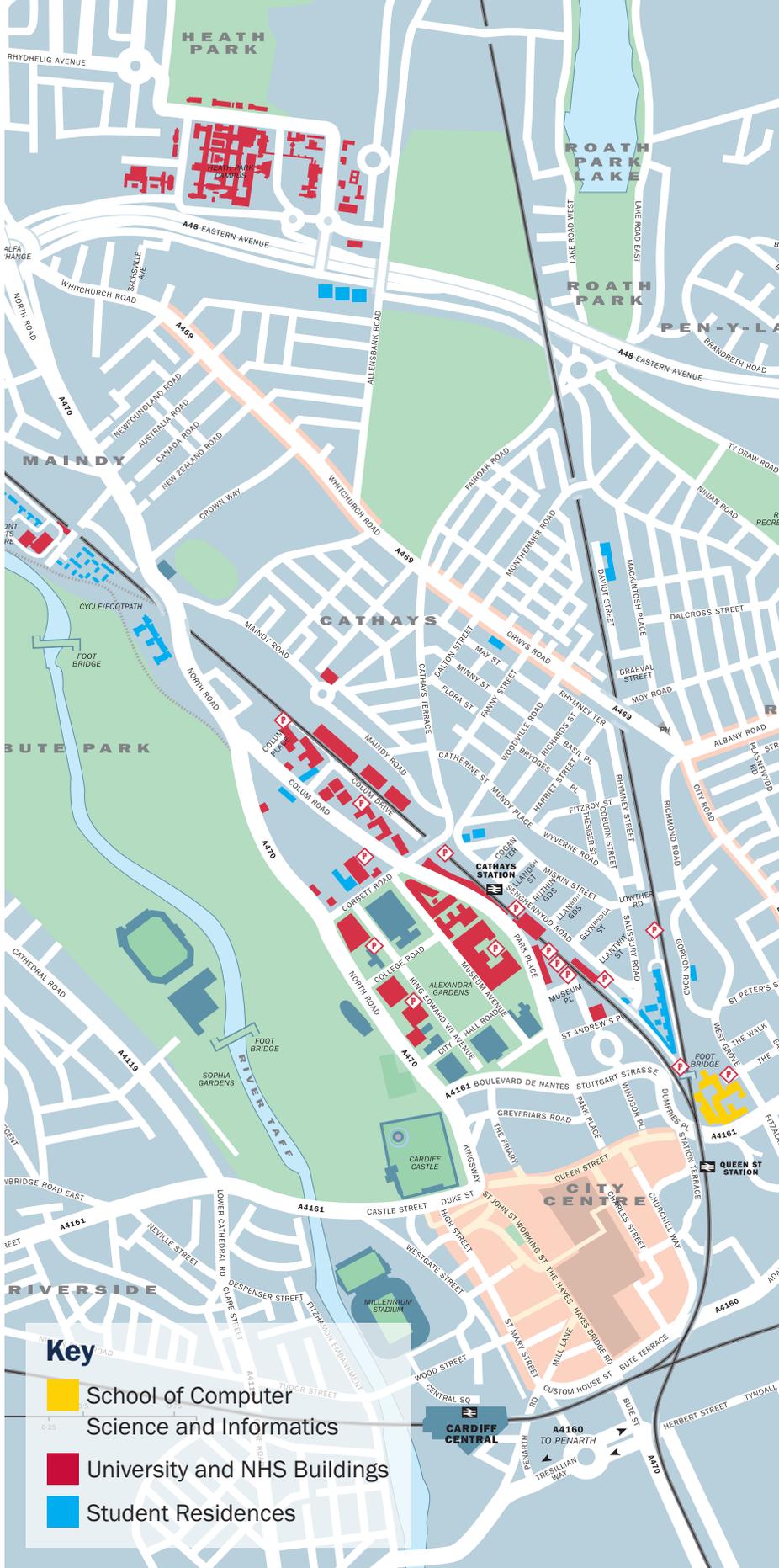
www.studentfinancewales.co.uk

Student Finance England:

www.studentfinanceengland.co.uk

Student Loans Company

www.slc.co.uk



How to find the School

The School of Computer Science and Informatics is located in the multi-million pound Queen's Buildings complex in the centre of Cardiff, meaning we are right next to the city's best shops, pubs, cinemas and other amenities. The site is also very close and easily accessed from the University halls of residence and the Students' Union. We are housed in the same complex as the School of Engineering and the School of Physics and Astronomy.

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.

COMSC0816/4500



This brochure is printed on paper sourced from sustainably managed sources using vegetable-based inks. Both the paper used in the production of this brochure and the manufacturing process are FSC® certified.

The printers are also accredited to ISO14001, the internationally recognised environmental standard. When you have finished with this brochure it can be recycled, but please consider passing it onto a friend or leaving it in your careers library for others to use.

Thank you.

This document can also be made available in 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

Cardiff University is a registered charity, no. 1136855



To find out more about the School of Computer Science and Informatics please visit our website: www.cardiff.ac.uk/computer-science



Got questions about student life?
Get them answered at:
www.cardiff.ac.uk/insiders

Some of our current students are sharing their experiences online through their Facebook pages, so if you want to know what life as a student at Cardiff is really like, then you can find out now. There is also lots of information about what is happening in Cardiff, including articles written by our students, videos, and much more.

Enquiries

Tel: 029 2087 4812
Email: comsc-ug@cs.cardiff.ac.uk

School of Computer Science
and Informatics
Cardiff University
Queen's Buildings
5 The Parade
Roath
Cardiff CF24 3AA

Stay in touch



Find us:
facebook.com/CompScienceCU



Follow us:
[@CompScienceCU](https://twitter.com/CompScienceCU)

Connect with us:



[linkedin.com/groups/
Cardiff-School-Computer-Science-Informatics](https://linkedin.com/groups/Cardiff-School-Computer-Science-Informatics)



THE QUEEN'S
ANNIVERSARY PRIZES
FOR HIGHER AND FURTHER EDUCATION
2015