



CARDIFF  
UNIVERSITY

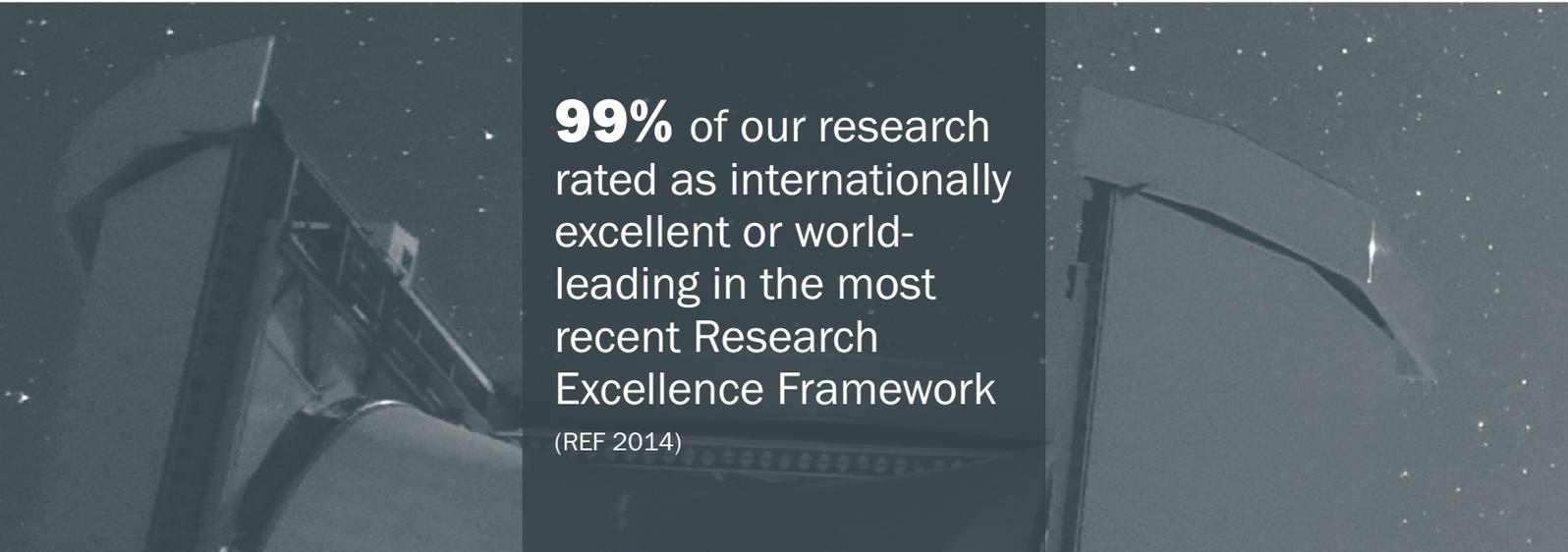
PRIFYSGOL  
CAERDYDD

School of  
Physics and Astronomy  
**Postgraduate** Programmes

[www.cardiff.ac.uk/physics-astronomy](http://www.cardiff.ac.uk/physics-astronomy)

# Welcome

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**99%** of our research  
rated as internationally  
excellent or world-  
leading in the most  
recent Research  
Excellence Framework  
(REF 2014)

## Award- winning teaching

(Dr Richard Lewis was  
awarded the National  
Teaching Fellowship (NTF)  
from Advance HE in 2019)



We are at the forefront  
of **today's most  
exciting scientific  
discoveries**,  
providing an inspiring  
place to study



## World-class

laboratory facilities, including those based at Cardiff University's £300 million Innovation Campus.



## Ranked 6th

in the UK for research in the most recent Research Excellence Framework

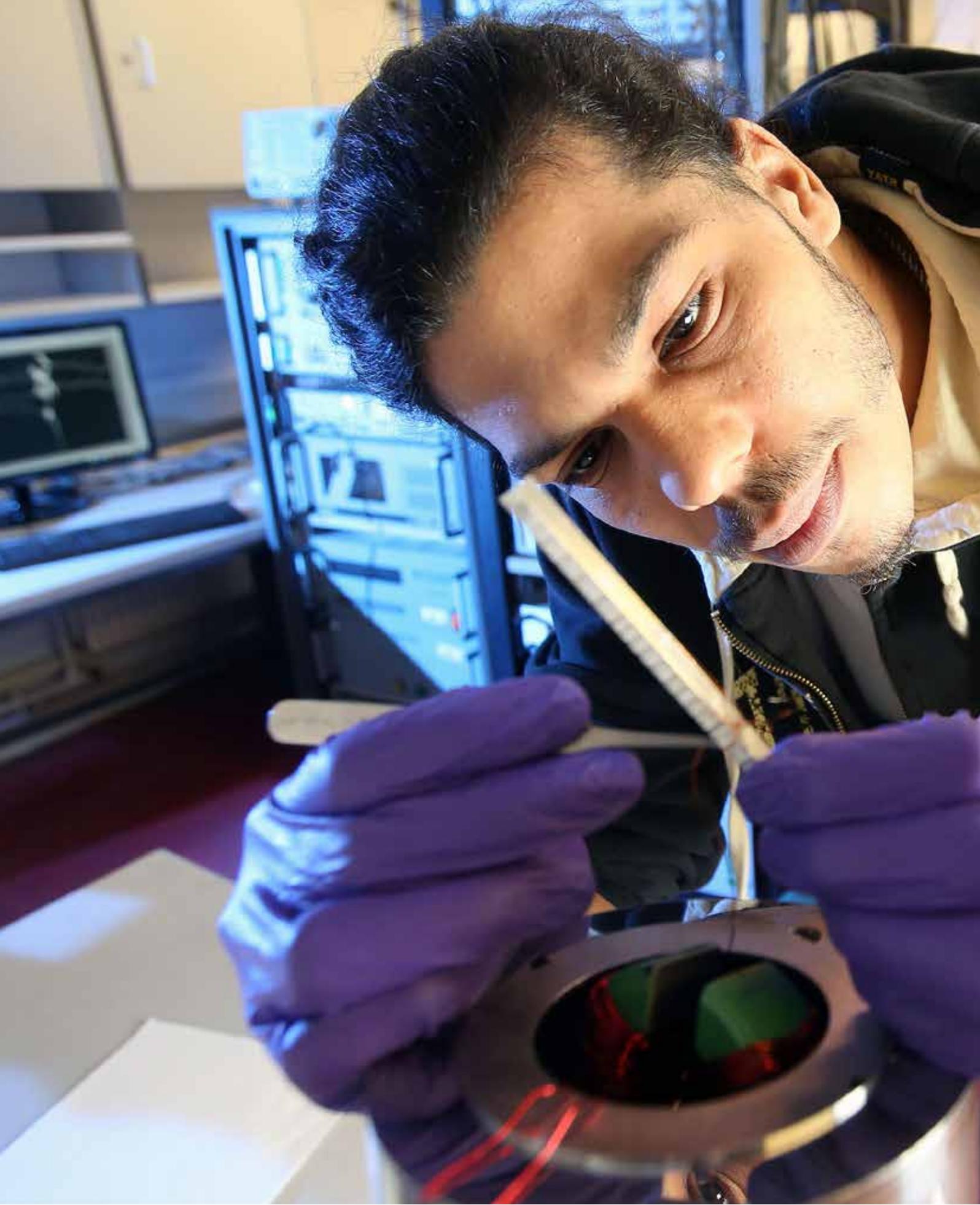
(REF 2014)



A strong commitment to **innovative research-led teaching**

## Contents

Discover your potential	4
About the School	6
Our research	8
Research information	10
EPSRC Centre for Doctoral Training in Compound Semiconductor Manufacturing	12
Our MSc programmes	14
• MSc Astrophysics	16
• MSc Compound Semiconductor Physics	18
• MSc Data Intensive Astrophysics	20
• MSc Data Intensive Physics	22
• MSc Gravitational Physics	24
• MSc Physics	26
Next steps	28
Why Cardiff University?	30
Cardiff: a capital city	31



# Discover your potential

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Be part of a School at the cutting-edge of physics and astronomy research supported by award-winning teaching.

**The School of Physics and Astronomy at Cardiff University has a reputation for excellence in both teaching and research, making it an ideal and inspiring environment for postgraduate study.**

We are proud of our inspiring and supportive atmosphere, and the development of our staff and students is central to our activities. Equipping our students with the knowledge and skills they need to pursue their ambitions is one of our key objectives.

As part of a research-led university, we continue to be involved with international collaborations and globally significant scientific developments.

Our staff are working at the cutting-edge of science and you may well have heard of some of the ground-breaking work being undertaken in the School. We are part of the international LIGO research team which detected gravitational waves for the first time in 2015 and is continuing to use this ongoing research to inform us about some of the most exciting and fundamental questions in science such as the origins of the Universe. We are also at the heart of research into compound semiconductor technology and along with our Institute for Compound Semiconductors in collaboration with IQE and our other industrial partners, we are spearheading the £50m UK Semiconductor Catapult to develop and build the next generation of compound semiconductor technologies.

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# About the School

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Join a School that prides itself on nurturing a friendly and supportive culture, valuing all staff and students.

## Learning environment

We provide a supportive learning environment with a bespoke teaching and learning facility which is set aside for our MSc students, and allows collaborative working with fellow students from across the School.



## Location

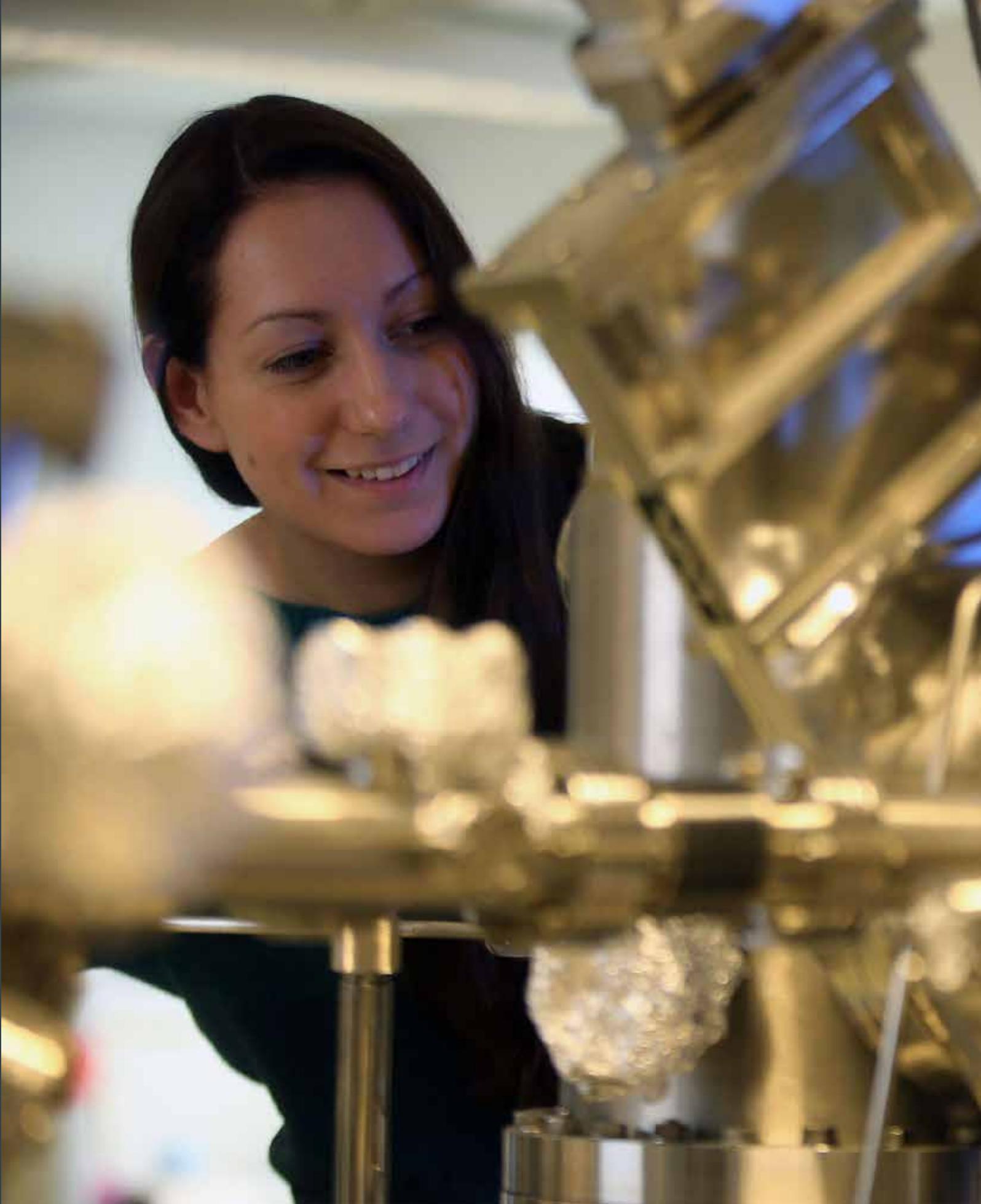
We are located in the Queen's Buildings complex right in the heart of the city, close to local transport and all the amenities a city has to offer. We have our own on-site cafeteria, library with meeting rooms and study facilities, as well as state-of-the-art laboratories.



Working with my MSc students is varied, challenging, and incredibly rewarding. I feel genuinely privileged to be able to support them in their academic and professional development as they transition between undergraduate students to becoming fully-fledged practising scientists. To be recognised with a National Teaching Fellowship for excellence and innovation in taught master's teaching is therefore a tremendous honour.

**Dr Richard Lewis**  
**Director of Postgraduate Studies**





# Our research

Our academic staff include internationally-recognised experts in a range of fields within physics and astronomy. Many of these staff are engaged in international collaborations, including those who worked on the first detection of gravitational waves in 2015, and who are continuing to break new ground.

The research conducted in the School of Physics and Astronomy is structured into six research groups:

- ▶ **Condensed Matter and Photonics**
- ▶ **Astronomy**
- ▶ **Astronomy Instrumentation**
- ▶ **Gravity Exploration Institute**
- ▶ **Brain Imaging**
- ▶ **Physics Education**

The Condensed Matter and Photonics Group brings together the principles of fundamental physics and the development of device concepts. The group incorporates scientists with diverse and complementary skills, including colleagues from Life Sciences and Engineering. The group is equipped with state-of-the-art laboratories for molecular electronics, quantum optics, semiconductor devices, magnetism and superconductivity, laser physics and the properties of diamond.

The Astronomy Research Group spans a range of topics throughout galactic and extragalactic astronomy and cosmology. Their major research topics include the cosmological evolution of high-redshift galaxies, the formation of stars and planets, and theoretical work on the large-scale structure of the early universe.

The Astronomy Instrumentation Group has a world-leading reputation for developing the theory and application of state-of-the-art astronomical instruments that fulfil the latest scientific needs. We specialise in the design and construction of astronomical instrumentation at millimetre and sub-millimetre wavelengths, for both ground and space-based observatories, as well as for studies of the Cosmic Microwave Background.

Research in the Gravity Exploration Institute is focused on black holes and gravitational waves. As co-founders of the GEO600 detector and partners in the LIGO project, the group were involved with the first detection of gravitational waves in 2015 and are continuing their work in this research area. Other international collaborations include the eLISA mission and the Einstein Telescope. Theoretical research in the group is focused on analytical and numerical modelling of the dynamics of binary black holes and the gravitational wave signals they emit.

A recent addition to the School is the new Brain Imaging Research Group which is based in the Cardiff University Brain Research Imaging Centre (CUBRIC). The group is working on

magnetic resonance physics and on advanced modelling and analysis of neuroimaging data.

The Physics Education Research Group is working on new teaching methodologies for physics education and their work ranges from monitoring and measuring the introduction of new teaching technologies to the development of new, more effective ways to teach physics.

We also have a number of ongoing interdisciplinary research projects that span these groups, bringing together researchers from across the School. Our range of expertise means that your PhD programme can be tailored to suit your interests.

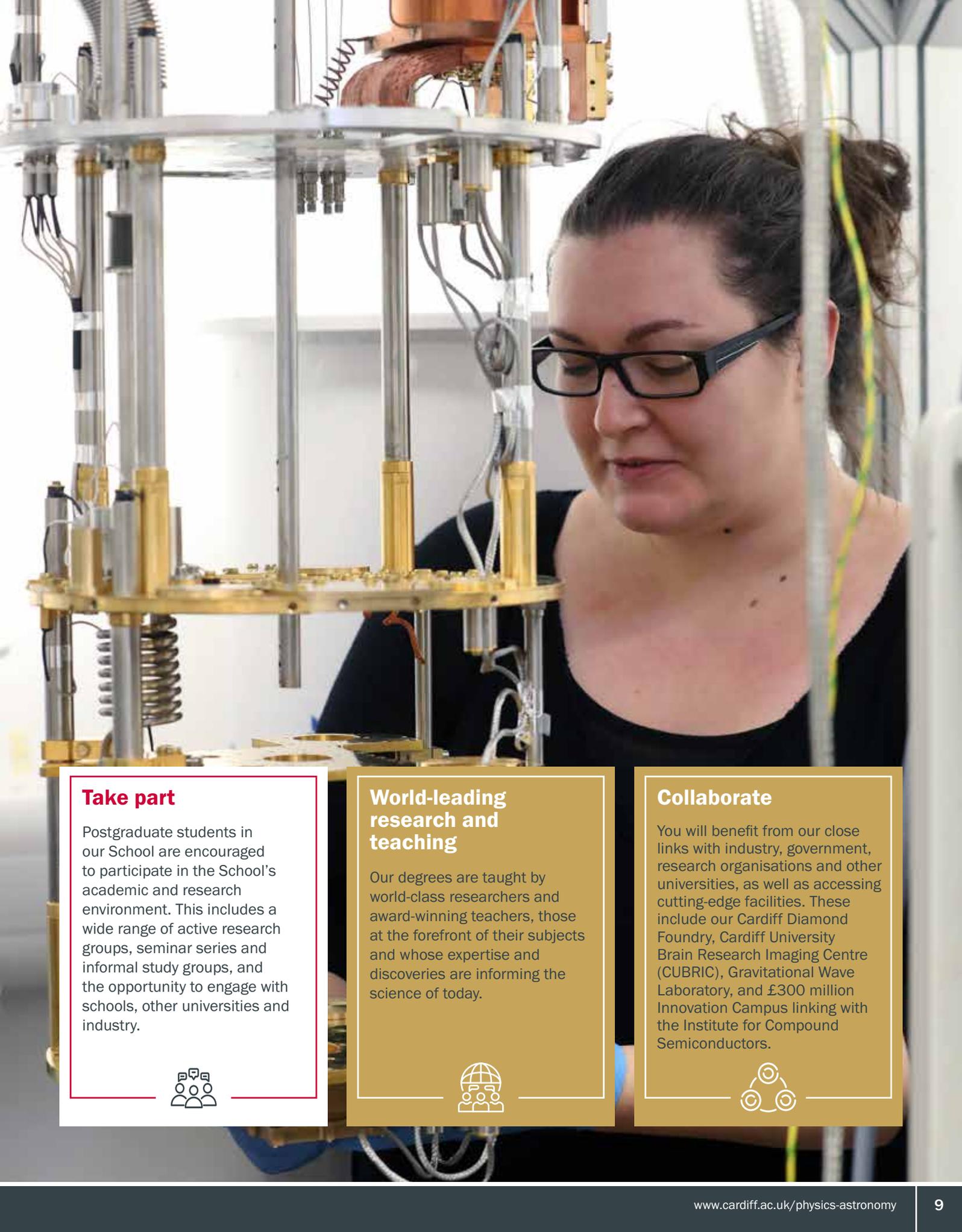
**Ranked 6th  
in the UK**

for research in Physics.  
(2014 REF)

**99%**

of our submitted research was judged to be 'world-leading' or 'internationally-excellent', the highest score of any Physics department in the UK.





### Take part

Postgraduate students in our School are encouraged to participate in the School's academic and research environment. This includes a wide range of active research groups, seminar series and informal study groups, and the opportunity to engage with schools, other universities and industry.



### World-leading research and teaching

Our degrees are taught by world-class researchers and award-winning teachers, those at the forefront of their subjects and whose expertise and discoveries are informing the science of today.



### Collaborate

You will benefit from our close links with industry, government, research organisations and other universities, as well as accessing cutting-edge facilities. These include our Cardiff Diamond Foundry, Cardiff University Brain Research Imaging Centre (CUBRIC), Gravitational Wave Laboratory, and £300 million Innovation Campus linking with the Institute for Compound Semiconductors.



# Research information

Find out more about our facilities, and the support and funding on offer.

## Facilities

Based in the Queen's Buildings complex, our facilities have benefitted from multi-million pound investment in recent years. These facilities include a low-energy electron microscopy suite and facilities to grow and characterise diamond, including nanodiamond. We have also benefitted from significant government investment in our compound semiconductor technology research facilities.



## Support for our research students

You will be part of the academic research life of our School. We foster a friendly and collaborative relationship between our staff and our research students across the range of research activities. Our success in securing funding means that our students benefit from the latest research facilities and equipment, as well as staff who are involved in world-leading collaborations with colleagues from across the globe.



## Funding opportunities

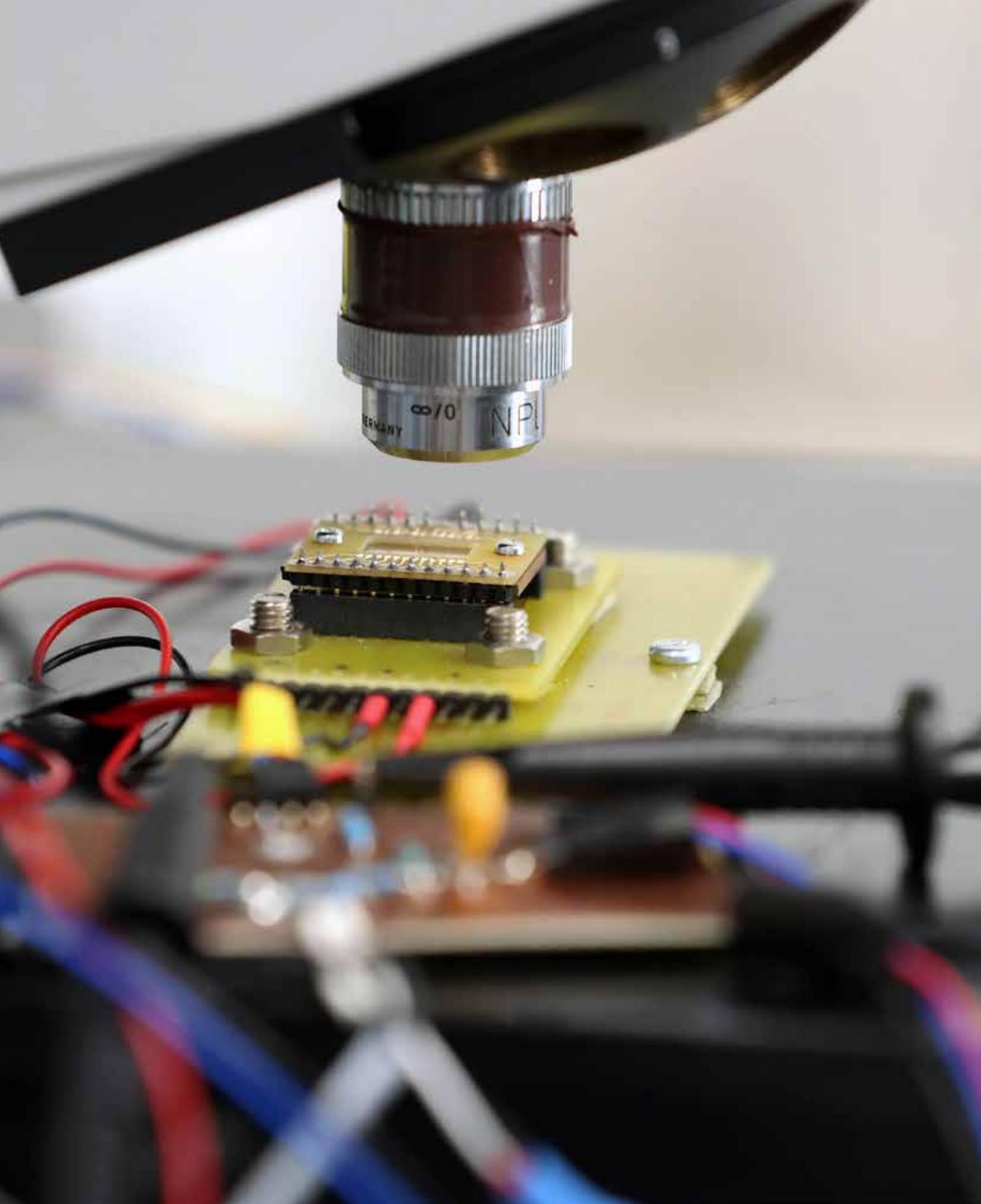
Due to our success in obtaining research funding each year we are able to offer a range of research degree scholarships across most of our major research areas.

Visit [cardiff.ac.uk/study/postgraduate/funding](http://cardiff.ac.uk/study/postgraduate/funding) to see the range of funding options available.

## Entry Requirements

Entry Requirements for PhD/MPhil programmes are a 1st class or 2:1 honours degree in physics, astrophysics, mathematics, electronics or equivalent postgraduate degree. For international students we also require English language qualifications of IELTS 6.5 or equivalent.





# EPSRC Centre for Doctoral Training in Compound Semiconductor Manufacturing

A career at the heart of exciting new technology.

Compound Semiconductor (CS) materials are a Key Enabling Technology at the heart of modern society. They are central to the development of, for example, the 5G network, energy efficient lighting, smart phones, satellite communications, power electronics for the next generation of electric vehicles and new imaging techniques.

If you would like a career at the heart of this exciting new technology, whether in industry or academia, the EPSRC Centre for Doctoral Training (CDT) in Compound Semiconductor Manufacturing offers fully-funded PhD studentships with an enhanced stipend to eligible students.

The CDT offers you a unique programme that provides a holistic understanding of the entire manufacturing process as well as expertise in at

least one stage. We believe that this approach is key to developing you as a future leader of Compound Semiconductor Manufacturing, whether you choose to pursue a career in industry or academia or both. The CDT is led by Cardiff University in collaboration with our university partners, Manchester University, Sheffield University and University College London.

The centre is part of the larger Compound Semiconductor cluster which has been established in South Wales. This includes the Institute of Compound Semiconductors and the Future Compound Semiconductor Manufacturing Hub, both based at Cardiff University, the Compound Semiconductor Centre, the Compound Semiconductor Catapult and the Compound Semiconductor Foundry.

Fully funded PhD studentships.

**Join us and find out where you can make your impact.**



# Our MSc programmes

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Our postgraduate programmes are designed to provide you with a sophisticated understanding of the fundamental principles of physics, as well as the advanced skills necessary for high-level scientific research.

MSc Astrophysics	16
MSc Compound Semiconductor Physics	18
MSc Data Intensive Astrophysics	20
MSc Data Intensive Physics	22
MSc Gravitational Physics	24
MSc Physics	26

# MSc Astrophysics

The topics taught in this programme include areas in which we are world leaders, spanning theoretical, observational and instrumental approaches to astrophysics. It is a full-time programme, delivered over 12 months and split into two stages.

**In the first stage of the course, you will take core modules covering techniques and research skills in astrophysics, and you will be able to choose from a wide range of optional modules. Modules offered in the past have included Cosmology, Extragalactic Astrophysics, Formation and Evolution of Stars, Instrumentation for Astronomy, and Advanced General Relativity and Gravitational Waves.**

The second stage of the programme is your research project, which you will complete over four months in the summer term. This project is completed with one of the research groups in the School of Physics and Astronomy, or alternatively as part of a placement with one of our external partners.

You will write up your research in the form of a dissertation, which is how the project is assessed.

## Career Opportunities

The skills and knowledge that you acquire on this MSc will equip you for a broad range of careers in research institutes, universities, observatories and research facilities and laboratories. You will be ideally placed for careers involving optics and lasers, nanotechnology and photonics, materials science, telecommunications and energy. A postgraduate degree in Astrophysics will also mean that you are highly valued by employers in banking and finance and all careers that require a strong mathematical and analytical background.

## Entry requirements

A 1st class or 2:1 honours degree or equivalent in a physical, mathematical or engineering science. We will give applicants with a good 2:2 degree or equivalent experience individual consideration. For international students we also require English language qualifications of IELTS 6.5 or equivalent.

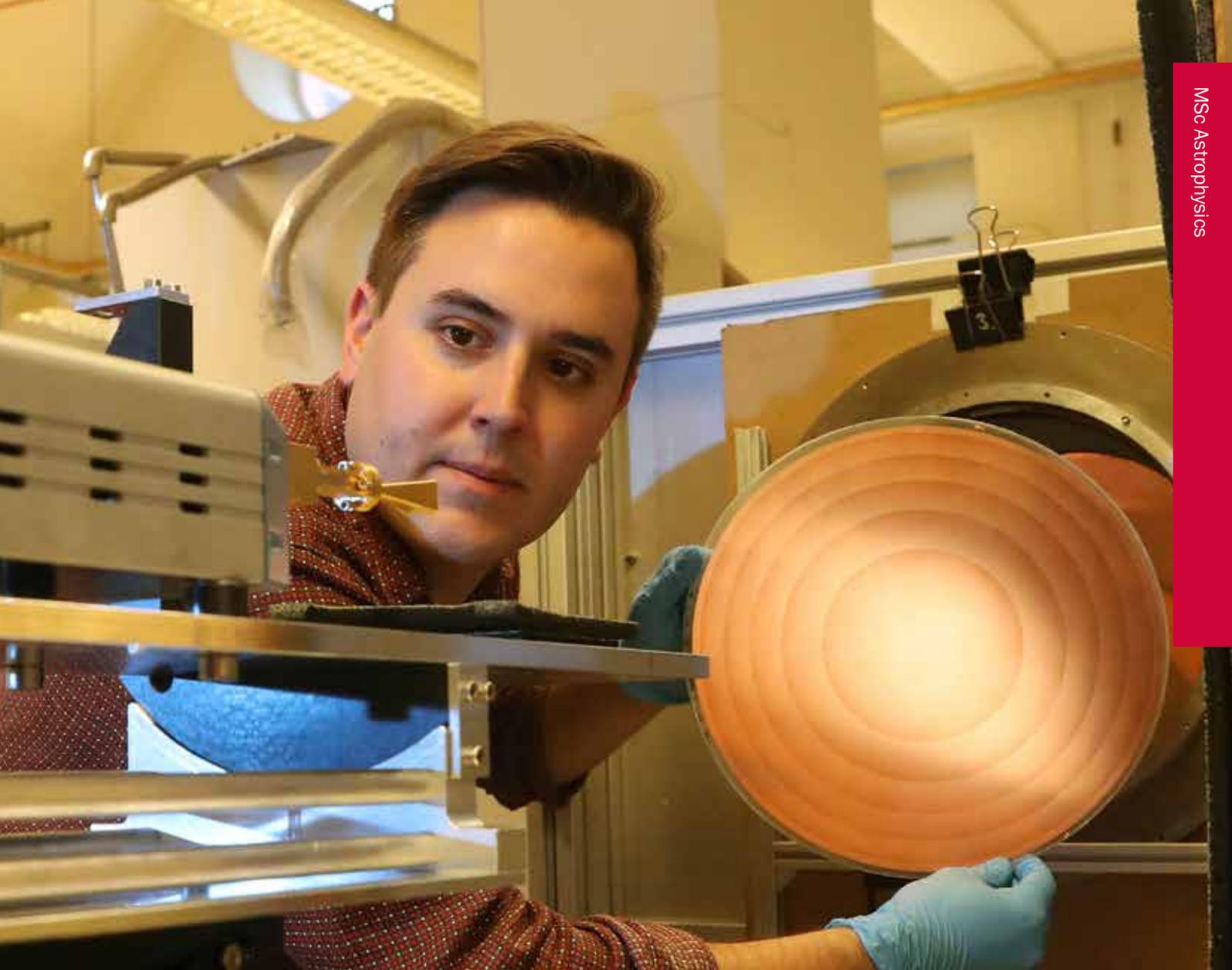


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The MSc Astrophysics allowed me to expand and develop my skill set further than I expected myself to be capable of. This was chiefly due to the excellent teaching standards and endless support I received from the faculty.

**Zak**, MSc Astrophysics

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Research-led MSc programme, with taught components **delivered by experts in their field.**

**Tailor the programme to your interests** with our broad range of optional modules.

The high-level analytical and numeracy skills that are the basis of this programme will open up **opportunities in a wide range of professions.**

# MSc Compound Semiconductor Physics

This course is delivered jointly by the School of Physics and Astronomy, and the recently established Institute for Compound Semiconductors (ICS).

**The ICS is part of the Compound Semiconductor Centre, putting Cardiff University at the forefront of exciting developments in compound semiconductor research, benefitting from both state-of-the-art facilities and world-leading academic staff.**

This is a full-time course delivered over 12 months and split into two stages. The first stage is the taught element of the programme, which includes compulsory modules on advanced experimental techniques, research skills and the main concepts and theories of compound semiconductors. It also includes a range of optional modules that allow you to tailor the course to your own interests. The second stage of the course is a research project that is completed over three months in the summer term.

You will complete your project with the ICS or another research group in the School, or alternatively with the support of one of our industrial partners. The project is assessed through a dissertation.

## Career Opportunities

A postgraduate degree in compound semiconductor physics offers the opportunity to take advantage of the extensive employment opportunities within the ever-growing compound semiconductor sector. You could take up a technical, research, development, or engineering position across the various compound semiconductor sectors, follow a career in science or mathematics education or in a range of related scientific fields and industries, or progress to further academic study.

The South Wales semiconductor industry employs over 1400 highly skilled people

and is set to expand rapidly over the next 5 years with the development of 5G, AI and other mega-trend markets.

Our strong industrial links and our unique position at the forefront of compound semiconductor technology will provide you with the opportunity to build both experience and contacts with a range of leading companies and organisations.

## Entry requirements

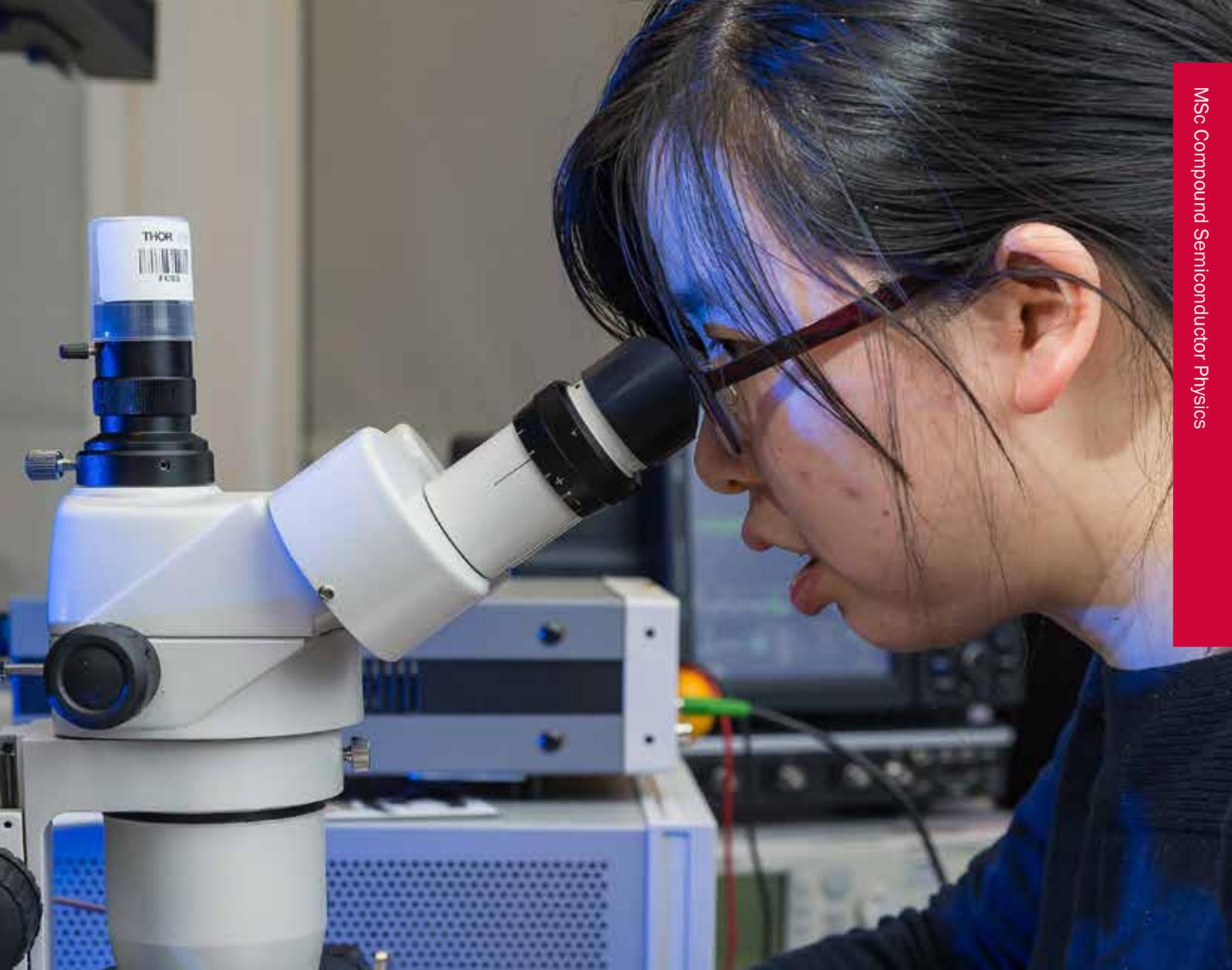
A 1st class or 2:1 honours degree or equivalent with a significant physics element. We will give applicants with a good 2:2 degree or equivalent experience individual consideration. For international students we also require English language qualifications of IELTS 6.5 or equivalent.



On the MSc Compound Semiconductor Physics, I was able to choose a variety of stimulating modules suited to my interests, as well as being taught practical research skills in the core modules. I have left the MSc with a new sense of confidence and accomplishment in myself as a scientist, which is invaluable to me.

**Rachel, MSc Compound Semiconductor Physics**

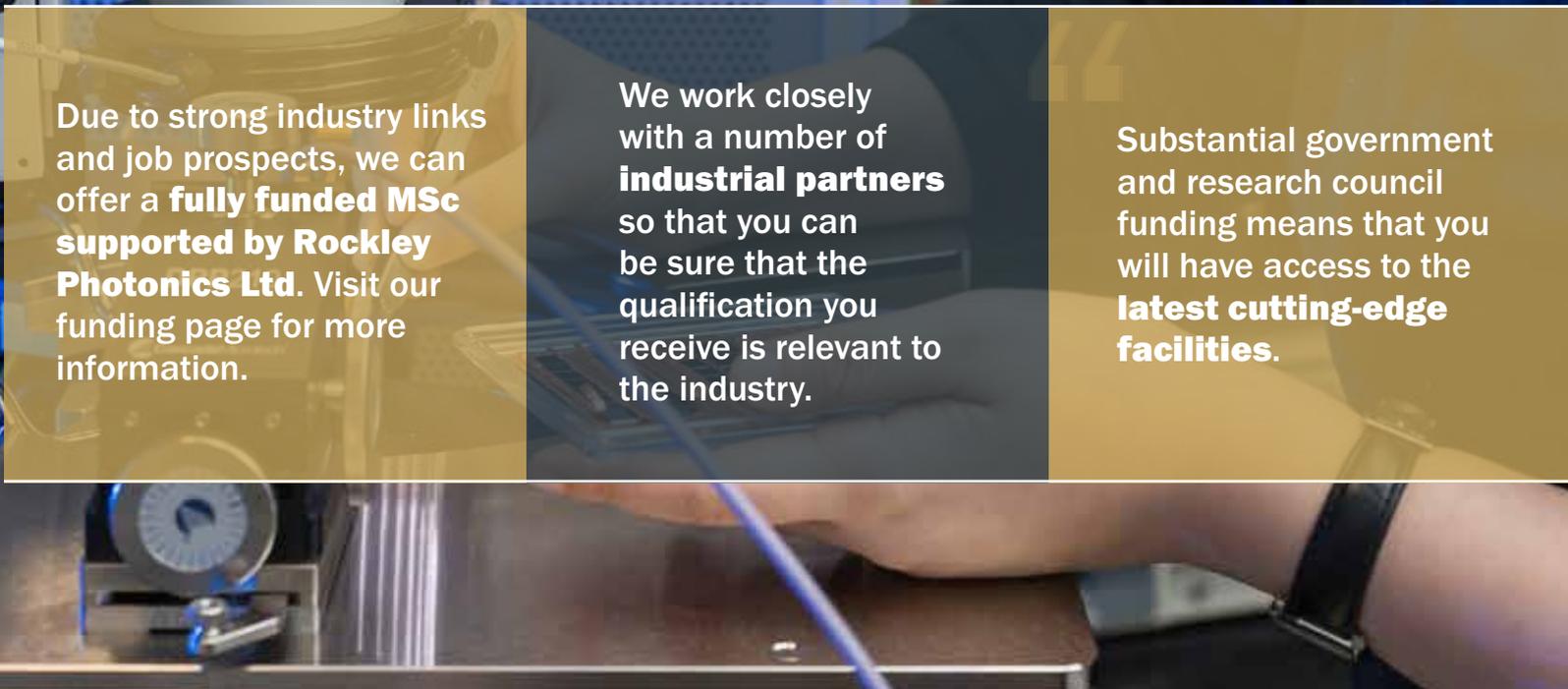




Due to strong industry links and job prospects, we can offer a **fully funded MSc supported by Rockley Photonics Ltd.** Visit our funding page for more information.

We work closely with a number of **industrial partners** so that you can be sure that the qualification you receive is relevant to the industry.

Substantial government and research council funding means that you will have access to the **latest cutting-edge facilities.**



# MSc Data-Intensive Astrophysics

Learn key skills in data and analysis, alongside astrophysics.

**Bringing together leading astrophysicists from the School of Physics and Astronomy, and “Big Data” expertise from the Data Innovation Research Institute, this course brings a new perspective to studying astrophysics.**

Successful completion of this course will equip you with a wide variety of transferable skills and sophisticated understanding of both data and astrophysics. In addition to our core modules, you will have the opportunity to select 30 credits of optional modules to suit your own interests. Teaching consists of lectures, seminars, tutorials and practical sessions, with some teaching delivered by the School of Computer Science and Informatics.

A key component of the course is a three month summer project, which will be based either in our School of Physics and Astronomy, or with one or more of our external partners. The project will focus

on the application of modern data science methodologies to a problem in Astrophysics (such as star formation, galaxy formation or gravitational waves), providing the hands-on experience needed to succeed in the dynamic field of Data-Intensive Astrophysics as well as wider aspects of data science.

## Career Opportunities

Graduates in physical sciences and data intensive subjects are in high demand due to the evolving nature of data and analysis. This course is designed to give you the skills and knowledge you need to undertake related postgraduate research study, or to pursue a career managing large-scale data in industry, government or other organisations including healthcare, information technology, media and finance. It is also ideal for those wishing to work in a research position in a physics, astrophysics or astronomy based industry.

## Entry requirements

A 1st class or 2:1 honours degree in physics, astrophysics, mathematics or a related subject. We will give applicants with a good 2:2 degree or equivalent experience individual consideration. For international students we also require IELTS 6.5 or equivalent.



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The Data Intensive Astrophysics MSc was a perfect fit for me and equipped me with all the necessary skills for a career in research. Coming from a Physics BSc, the Masters course was a vital stepping-stone to starting a PhD with strong emphasis on data analysis. The quality of teaching and support here at Cardiff is second to none, and at every opportunity I was encouraged to engage with the research community at the School.

**Michael, MSc Data-Intensive Astrophysics**

”



You will be based in a dedicated teaching facility that encourage a “**research group**” **community atmosphere** that has been praised by students and external examiners.

Central to the design of the programme is the opportunity for you to acquire **real research experience** in connection with world-leading scientists.

This courses includes a **three-month summer project** which provides hands-on experience in the field of Data-Intensive Astrophysics.

# MSc Data Intensive Physics

Take advantage of the growing employment opportunities being generated by the demands of “Big Data”.

**This programme has been designed to meet the growing demand for postgraduate-qualified scientists with expertise in managing, analysing and interpreting large quantities of data. The course is delivered by members of our Data Innovation Research Institute, which is leading the way in meeting the challenges posed by the new age of ‘big data’.**

This is a one-year, full-time course, beginning in September each year. The first stage of the course includes all of the taught components. The core modules provide a thorough understanding of the basics of data, as well as advanced techniques and research skills in physics. You can also select optional modules covering a wide range of physics topics, giving you the chance to tailor the course to your interests. The second stage of the course is a research project that you will

complete over the summer term. You will complete your research either within the School of Physics and Astronomy or as part of a placement with one of our industrial partners. The project is assessed by a written dissertation.

## Career Opportunities

It is estimated that “Big Data” has added 58,000 jobs to the UK economy so far and this is only going to increase as new approaches to data transform society and the workforce. We will be at the forefront of these developments and our graduates will receive top quality training through the MSc programme. There is currently huge demand for well-qualified graduates in data management and analysis. As well as career opportunities in education or in research and development, this MSc opens doors to a range of other numerate career areas.

## Entry requirements

A 1st class or 2:1 honours degree or equivalent in physics, astrophysics, mathematics or a related physical science. We will give applicants with a good 2:2 degree or equivalent experience individual consideration. For international students we also require IELTS 6.5 or equivalent.



“

The lecturers were very approachable and always happy to help with any queries. The communal workspace allocated to the MSc students created a real sense of community within the cohort, with everyone discussing projects and helping each other with problems.

**Steven, MSc Physics**

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The programme is **delivered by members of our Data Innovation Research Institute.**

The programme includes a **three-month summer project** which focuses on the application of modern data science methodologies.

The programme allows a choice of elective modules and project work that can be **tailored to suit** whatever specialism you are interested in.

# MSc Gravitational Wave Physics

Provides broad and comprehensive training in both theory and experiment in gravitational wave (GW) physics and astronomy.

**The field of gravitational physics has grown rapidly in the last few years following the first direct detection of gravitational waves in 2015, one hundred years since they were first predicted by Einstein's general theory of relativity. Gravitational-wave observations are now transforming our understanding of the universe, and the field will continue to grow in the next decades with successive improvements in the sensitivity of current detectors, the design and commissioning of the next generation of ground-based detectors, and the space-based LISA detector.**

The Gravitational Wave Physics MSc provides broad and comprehensive training in both theory and experiment in gravitational wave (GW) physics and astronomy: techniques in laser interferometry for GW detection, general relativity, astrophysics, modelling of GW sources, and data analysis for GW detection

and source interpretation. The programme offers three streams, which allow specialisation in GW observation, data analysis and source modelling, or a broad experience across these topics. Cardiff University staff are at the forefront of world-leading research in all of these areas, which span the core topics at the heart of the field, and which make this a unique degree programme.

As part of the programme you will complete a three-month summer project on one of these research areas. As part of your research you will have the opportunity to join the LIGO Scientific Collaboration and to contribute to flagship projects related to gravitational-wave experiment, source modelling, signal searches, and astrophysical interpretation. You will be able to tailor the course to your requirements by choosing from a range of elective modules to suit your interests and ambitions.

## Career Opportunities

On completion of the programme you will have the knowledge, skills and experience necessary to begin a research career in gravitational-wave physics, and be a competitive candidate for a wide range of jobs in industry, education or finance.

## Entry requirements

A 2:1 honours degree in Physics, Mathematics or Engineering, or equivalent qualification. If you have a 2:2 bachelor's degree or equivalent or relevant industrial experience, your application will be given individual consideration. International applicants will also require IELTS 6.5 or equivalent.



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The MSc was the perfect course to prepare me to start a PhD, it allowed me to convert from Mathematics to Physics and to focus on my specific interest in General Relativity as the course progressed. There are a wide variety of taught modules which cater for a huge range of interests and with the support given at this stage, provide an excellent foundation for the summer project. The summer project provided me with the opportunity to carry out interesting and legitimate research alongside genuine experts in a very current and exciting field.

**Rhys, MSc Physics**

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We have been closely involved in the detection of gravitational waves and we are part of a world-wide LIGO research collaboration that continues to make **ground-breaking discoveries** in this field.

Our newly established Gravity Exploration Institute employs **expert researchers from around the world** who will be involved in your teaching and who may help supervise you on your research project.

Central to the design of this programme is the opportunity for you to **take ownership of real theoretical or practical projects.**

# MSc Physics

You will cover theoretical and experimental physics along with advanced areas of application.

**The content of this course reflects our research expertise across a range of Physics disciplines. Our programme will give you a sophisticated understanding of general concepts, as well as a detailed knowledge of specialised topics. It is a full-time programme delivered over 12 months and split into two stages.**

The first stage of the course includes core modules in advanced experimental techniques and research skills, in addition to a wide range of optional modules for students to choose from. Optional modules offered in the past have included Condensed Matter Physics, Environmental Physics, Modern Quantum Optics, and topics within Astrophysics.

The second stage is a four-month research project, which is completed over the summer term and assessed by a dissertation. You will undertake this project

with one of the School's research groups or alternatively as part of a placement with one of our external partners in industry.

## Career Opportunities

A master's degree in Physics opens up a wide variety of career opportunities. The skills and experience you will acquire on this course are highly sought after for PhD studentships and by industrial employers. This course will prepare you for further postgraduate study or a highly skilled career in a range of industries, as well as any positions requiring strong mathematical skills. Our former MSc students have successfully progressed to PhD studentships as well as technical careers in industry, teaching, and science journalism.

## Entry requirements

A 1st class or 2:1 honours degree or equivalent in a physical, mathematical or engineering science. We will give applicants with a good 2:2 degree or equivalent experience individual consideration. For international students we also require IELTS 6.5 or equivalent.

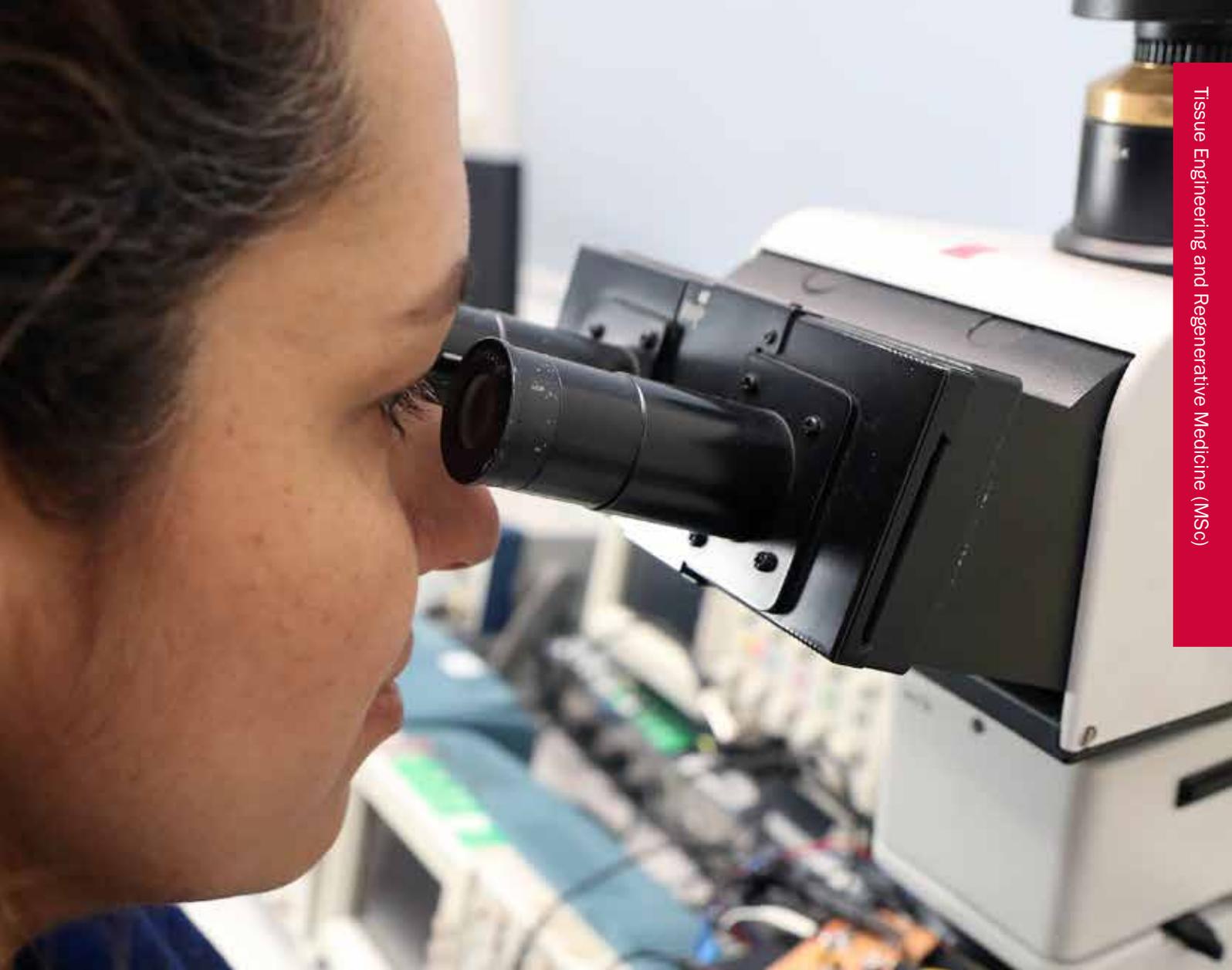


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Besides the engaging elective modules, and the carefully curated and thoroughly well taught core modules, the best thing about the MSc is the support offered that just isn't present at undergraduate. The summer projects offered are the perfect insight into the breadth of research available at Cardiff. I came into the MSc as a student, and left it feeling more like a research scientist.

**Joseph, MSc Physics**

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Taught modules delivered by **world-class researchers.**

**Experimental and theoretical summer research projects** based either at our excellent research facilities or in placement with one of our industrial partners.

**Innovative programme design** with dedicated teaching and learning support delivered by our specialist Teaching and Scholarship team.

# Next steps

## When to apply

Applications will be considered throughout the year. However, early application is advisable especially if you are seeking funding. Many funding opportunities have early deadlines and will require you to have an offer from your chosen institution.

## Submitting your application

Postgraduate taught programmes start in September each year, but applications are considered as they arrive throughout the year.

You can apply online at: [www.cardiff.ac.uk/study/postgraduate/applying/how-to-apply](http://www.cardiff.ac.uk/study/postgraduate/applying/how-to-apply)  
Full guidance notes are available and can be accessed at each stage of your application.

If you have any queries you can contact the University's Admissions Team:

Tel: **+44 (0)29 2087 9999**  
Email: [admissions@cardiff.ac.uk](mailto:admissions@cardiff.ac.uk)

## Postgraduate research (PhD/MPhil)

The application procedure for postgraduate research is the same as above, however you will also need to include a research proposal. You should also make contact with a member of academic staff who could act as a potential supervisor to your studies. To do this:

1. Look at the School website to see if there is a member of academic staff who matches your area of research.
2. Send an email to [physics-admissions@cardiff.ac.uk](mailto:physics-admissions@cardiff.ac.uk) outlining your research interest and the name of the academic staff who could potentially act as a supervisor for your research project.

## International students

The University recognises qualifications from all over the world. To know if you would be considered for entry you can visit our website: [www.cardiff.ac.uk/study/international](http://www.cardiff.ac.uk/study/international)

We have a dedicated section for many countries, international agents and contact details for further information.

In addition to making your application as detailed below, you must ensure that you have a valid visa to enter the UK prior to the start of your course. The International Office can provide further guidance and support on this process.

## Your offer

There are two types of offer:

- **Conditional:** you have been offered a place but something is missing from your application, e.g. you may need to provide evidence that you have completed a qualification. Once you have submitted evidence that you have met the conditions, your offer will become unconditional.
- **Unconditional:** If you have received an unconditional offer, in most cases all you need to do is accept the offer to secure your place. It is important that you keep us informed of any changes to your email or home address otherwise important correspondence may not reach you.

## Equality and diversity

Whether you're thinking about coming to Cardiff University or you're already a student here, we want to ensure that we provide the best support to you. The 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 ensures equality of opportunity on the grounds of age, disability, gender, pregnancy and maternity, race (including ethnic or national origin, colour or nationality), religion or belief (including lack of belief), and sexual orientation.

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

## Disabilities/Special Needs

We are committed to providing an accessible environment for all students. You are encouraged to make contact prior to submitting an application to discuss individual requirements or to arrange a visit to assess the suitability of facilities. Please note disclosing a disability will not affect your chances of receiving an offer to study except where courses are subject to fitness to practice criteria.

For further advice please contact:  
Email: [disability@cardiff.ac.uk](mailto:disability@cardiff.ac.uk)  
Tel: **+44 (0)29 2087 0004**

### Important Legal Information

Every effort has been made to ensure that the information contained within this brochure is 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 Cardiff University.

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.

Cardiff University is a registered charity, no. 1136855.

### Further information

Tel: +44 (0)29 2087 6457

Email: [physics-admissions@cardiff.ac.uk](mailto:physics-admissions@cardiff.ac.uk)



# Cardiff: a capital city

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## Dynamic. Friendly. Affordable.

Contemporary, welcoming and easy to get around, Cardiff is a city with character, heritage and ambition. Bursting with culture, cuisine, architecture, entertainment and history, Cardiff is widely recognised as an outstanding place in which to live, work and study. The city is also budget-friendly: Cardiff was recently ranked as one of the UK's most affordable university cities (Natwest Student Living Index 2020).



“

With an exhilarating mix of heavyweight cultural sights, exciting regeneration projects, world-class sport, a prolific music scene and some seriously banging nightlife, it's easy to see why Cardiff now ranks alongside London and Edinburgh as one of the UK's most compelling destinations.

ROUGH GUIDES, 2018

”

# Why Cardiff University?



## World-leading research

Cardiff is in the top tier of Britain's research universities and is a member of the prestigious Russell Group. We're ranked second nationally for research impact, and in the top 5 universities for research excellence in the UK.

(REF 2014)

**98%**

of postgraduate research students and 95% of postgraduate taught students in highly skilled employment 15 months after graduation.

(HESA 2020)

**£600 million**

We're undertaking our biggest campus upgrade for a generation by investing £600m to improve and develop our facilities and infrastructure.

## Teaching excellence

We have a long history of providing outstanding research-led teaching. We're ranked among the top 40 universities in Europe for teaching excellence (Times Higher Education Europe Teaching Rankings, 2019).

## An international community

With over 7,900 international students from more than 130 countries, you'll be part of a vibrant community that celebrates its diverse culture.

**7**

We've been awarded seven Queen's Anniversary Prizes, which recognise world-class excellence in UK Higher Education. We're also home to a large cohort of distinguished staff, including two Nobel Prize winners and 13 Royal Society Fellows.

**CARDIFF**  
UNIVERSITY

PRIFYSGOL  
**CAERDYDD**

To find out more about the  
School of Physics and Astronomy  
please visit our website:  
[www.cardiff.ac.uk/physics-astronomy](http://www.cardiff.ac.uk/physics-astronomy)

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