Explore Your Possibilities

POSTGRADUATE STUDY AT RGU

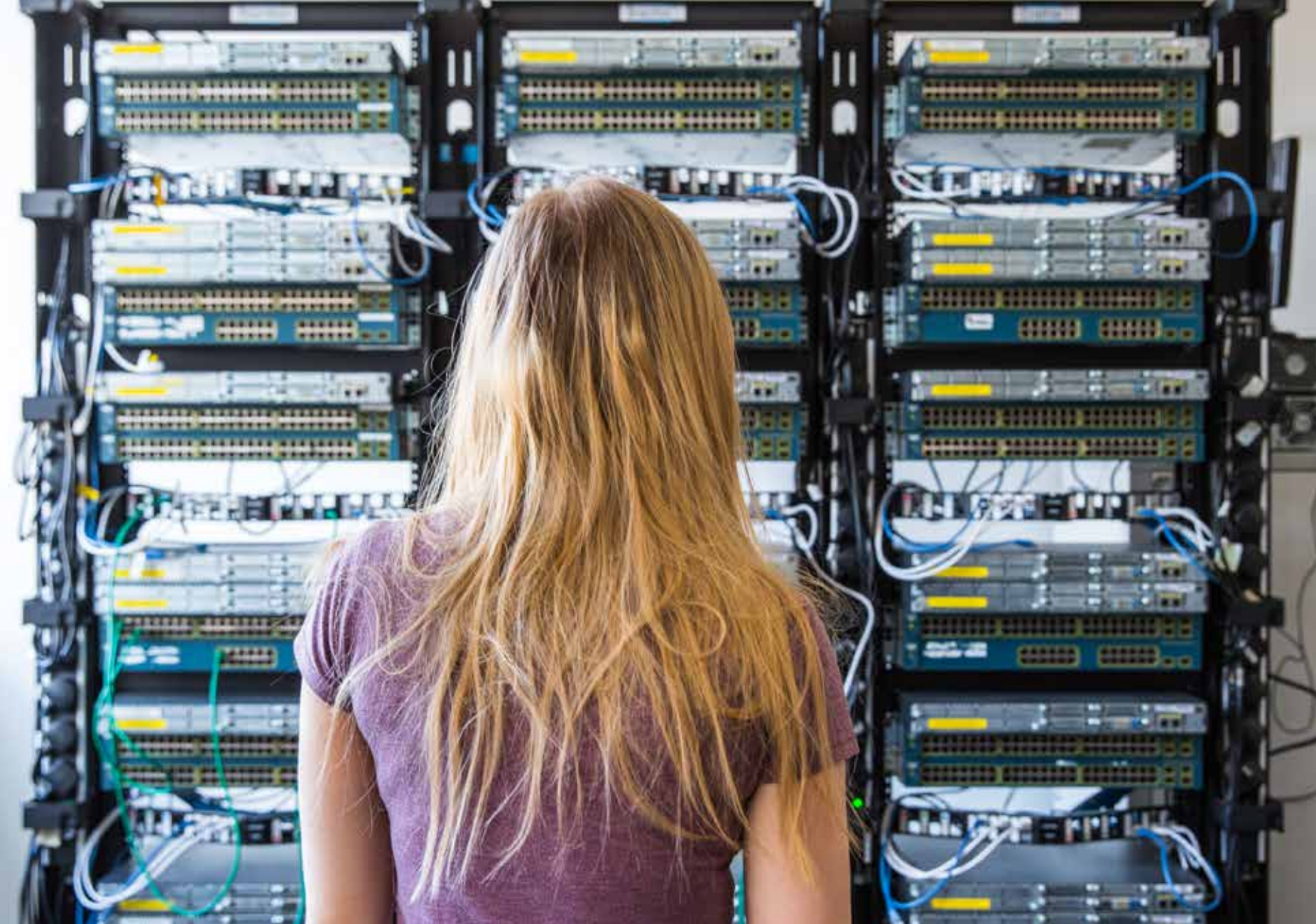## Computing

RGU | ROBERT GORDON UNIVERSITY ABERDEEN

Plan your Journey

CONTENTS

School of Computing Science and Digital Media

WELCOME TO THE SCHOOL OF COMPUTING SCIENCE AND DIGITAL MEDIA

The School of Computing Science and Digital Media offers a range of professionally relevant Masters courses in the areas of Information Technology, Network Management and Cyber Security, Business Intelligence and Data Science.

All our courses benefit from industry input since their inception, therefore covering both the technical skills that industry requires and the professional skills that the global economy demands. You will have opportunities to pursue industry placements, get involved in research or commercial projects and gain pertinent creative skills sought after by your future employers.

The MSc courses are taught by an experienced team of highly qualified and dedicated academics. The specialised courses in Data Science, Computer Science and Cyber Security are designed to build upon and develop your existing Computing knowledge. The IT courses are designed for non-computing graduates who wish to enter the IT industry and develop a specialism in areas such as Oil and Gas, Business Intelligence, Cyber Security or Network Management.

We provide our students with a friendly, collegial and intellectually stimulating learning environment in state-of-the-art facilities. Our computing, networking and Cyber Security labs are equipped with modern hardware and software technologies.

We appreciate that the decision to study for a postgraduate qualification is a major one. You can be certain that by studying with us you are making the right career-enhancing decision. We look forward to welcoming you to our School.

Your
journey begins…

If you have recently graduated or are looking to retrain or develop your career – have you considered postgraduate study?

We offer a range of specialist postgraduate courses with flexible modes of study, including part-time or full-time to fit around your needs.

Whether you have recently graduated, want professional accreditation, are looking to retrain or develop your career – whatever your reasons for postgraduate study – we have an excellent reputation for producing high-calibre graduates with transferable skills that can enhance careers.

WHO IS THIS BOOKLET FOR?

This booklet is for individuals considering postgraduate study. See the full course list at **www.rgu.ac.uk/explorepg**

If you are a business owner or HR manager seeking information on customised training please contact **business@rgu.ac.uk**

If you are considering a research degree, please visit the postgrad research webpage. **www.rgu.ac.uk/postgraduate-research**

'A top-rated university for employability'
96.7% postgraduate employment rate
HESA 2016

Your Journey

Why study a postgraduate course at RGU?

PRACTICAL AND PROFESSIONAL COURSES

Vocational courses directly informed and endorsed by those working in industry

FLEXIBLE STUDY MODES TO SUIT YOUR BUSY LIFE

Our full-time or part-time study modes are designed to fit around your needs with courses starting in September or January

SIGNIFICANTLY IMPROVE YOUR JOB PROSPECTS

Enhance your employability and get that crucial competitive edge within a crowded job market

EARN WHILE YOU LEARN

Our part-time study mode means you can keep working during your studies

SWITCH CAREERS

RGU's courses can open the door to a completely different sector of work, enabling you to change career direction

ADVANCE YOUR SKILLS AND CAREER

Develop your professional skills and keep abreast of current industry trends and technologies

20% ALUMNI DISCOUNT

RGU graduates get a 20% discount on postgraduate course fees. Applies to both home and overseas alumni

Pressure on the jobs market means graduates now face the difficult process of job hunting within a very competitive environment. It's the perfect time to undertake further training and gain experience through a postgraduate degree.

Explore

Enhance your career at the professional University

We are known as 'The Professional University' due to our strong emphasis on lifelong practical learning and career development.

We take the employability of our graduates seriously, and ensure they have the transferable skills to enhance and develop their careers.

WE CREATE THE MOST EMPLOYABLE GRADUATES IN THE UK

Our strong focus on professional education means our graduates are not just ready to work, but are also equipped to make an enduring and valuable contribution to industry and the professions on a regional, national and global scale.

We believe it is our inspirational teaching and practical courses that make our graduates such desirable candidates.

ACADEMIC EXPERTS

We're proud of our teaching staff; proud of their quality and academic achievements as well as the practical experience they have in their area. Our professors, lecturers and tutors combine first-class qualifications with industry-related work. They offer insight from both worlds – the theoretical and practical – to help inspire you.

EARN MORE

Overall, people with master's qualifications are more likely to find work than those with undergraduate degrees – and they're likely to earn a higher wage.

SUCCEED IN YOUR CAREER

We produce high-calibre graduates who possess the skills that employers are looking for. The skills you will gain from a postgraduate qualification show that you're able to study in-depth and undertake critical analysis. Both are viewed as desirable skills in the eyes of recruiters and future employers.

Join the best Scottish university for graduate prospects

We are a top-rated university for postgraduate employability, with a 96.7% Employment rate

Mapping your journey

Study modes to suit you

When considering a postgraduate course, it is important to also consider the mode of study which best suits your needs. We deliver the equivalent learning experience across all our modes of study, offering a variety of different options, allowing you to gain the qualifications you need in a way that suits you.

Full-time study

This is the quickest route and requires full attendance for the duration of the programme. Allows you to gain the knowledge and skills you require within the shortest amount of time.

Part-time study

If you are looking to continue working during your studies or have other commitments, this option allows you to incorporate studying with other responsibilities. Part-time courses run alongside the full-time programmes and split the same modules across the length of the course.

QUALIFICATIONS EXPLAINED

If you don't want to commit to studying a full Masters degree, you can complete single modules and work towards the following exit awards:

Postgraduate Certificate (PgCert)
Award granted on completion of modules that accumulate to 60 credits.

Postgraduate Diploma (PgDip)
Award granted on completion of modules that accumulate to 120 credits. If you get a diploma you will have gained 120 of the 180 credits you need for a masters degree.

Masters (MSc)
Award granted on completion of modules that accumulate to 180 credits and typically includes a dissertation. This will enable you to consolidate and apply the skills and knowledge gained in your earlier postgraduate study.

Doctorate (PhD/PD)
Application is normally to MSc/MRes with transfer to a PhD dependent on satisfactory progress around 12 months.

Your investment

Outstanding reputation for success

Top university in Scotland for graduate prospects

(Complete University Guide, 2016)

96.7% of our postgraduates are in work or further study six months after graduating

(HESA Destination of UK Leavers' Survey 2014/15)

RGU was the best university in Scotland and 9th in the UK for graduate employment

(The Times and Sunday Times Good University Guide 2015)

' A degree from Robert Gordon University is as near to a guarantee of a job as you can get.

Few graduates were unemployed six months after leaving – just 3.8% – The lowest rate of any state-funded university in the country.

It's the same every year at Robert Gordon, which has the best graduate jobs record of any university.'

The Sunday Times University Guide

INTERNATIONAL REPUTATION

We have an outstanding reputation for producing capable and highly employable professionals, due to our strong links with industry and our strategic partnerships.

We have highly productive relationships with CEOs and managers across private and public sectors throughout the UK. This enables us to ensure that our postgraduate education is contemporary and meets the needs of employers across the globe.

CONSISTENTLY TOP FOR THE EMPLOYABILITY OF OUR GRADUATES

We are extremely proud of our outstanding graduate employment record and are consistently top in the UK for graduate employability.

Our success stems from an outstanding reputation for producing capable and highly qualified graduates who learn and apply the skills, knowledge and professionalism that employers want in the workplace.

Read our accolades on our website:
www.rgu.ac.uk/employment-success

Our fantastic riverside campus

BEST RIVERSIDE CAMPUS

Located in the heart of the historic Royal Deeside, the University's £120 million riverside campus is one of the most beautiful in Europe and ranks 3rd in the UK for its high-quality facilities (The Times Higher Education Student Satisfaction Survey 2016).

The riverside is home to deer, otters, heron and other wildlife. Our campus has stunning woodland walkways and parkland, connecting our modern, stylish buildings. In twenty minutes you can be in the vibrant city centre of Aberdeen, or surrounded by scenic hills and picturesque countryside.

To view our full list of facilities and find out more, visit
www.rgu.ac.uk/facilities

Or come and see the campus for yourself by registering to attend one of our postgraduate events.
www.rgu.ac.uk/explorepg

Can't make it in person? Take a virtual tour at
www.rgu.ac.uk/virtualtours

Garthdee campus map

SCHOOL OF COMPUTING SCIENCE AND DIGITAL MEDIA
SCHOOL OF ENGINEERING
SCHOOL OF PHARMACY AND LIFE SCIENCES

SCHOOL OF APPLIED SOCIAL STUDIES
SCHOOL OF HEALTH SCIENCES
SCHOOL OF NURSING AND MIDWIFERY

ABERDEEN BUSINESS SCHOOL
SCHOOL OF CREATIVE AND CULTURAL BUSINESS
THE LAW SCHOOL

GRAYS SCHOOL OF ART

THE SCOTT SUTHERLAND SCHOOL
OF ARCHITECTURE AND BUILT
ENVIRONMENT

**THE SCOTT SUTHERLAND SCHOOL
OF ARCHITECTURE AND BUILT
ENVIRONMENT**

3D Printing

Modelling Workshop

Mac Suite

THE SIR IAN WOOD BUILDING

DART Simulator

Wave Tank

ROV Pit

Simulation Centre (Mock Pharmacy)

Clean Room Suite

Mock Crime Scene Area

Forensic Imaging Suite

Microscopy Suite

Food Handling and Preparation Labs

Mac Suites

Catering Facilities

**HEALTH AND SOCIAL
CARE BUILDING**

Clinical Skills Centre

Human Performance Lab

X-ray Suite

Catering Facilities

STUDENT CENTRAL

Student Help Point

Careers and Employability Centre

Study Support

Wider Access and Outreach

Counselling Support and Wellbeing

Disability and Dyslexia
Advice and Support

International Student Advice, Visa
and Immigration Centre

ResLife

**ICRGU
INTERNATIONAL
COLLEGE**

RGU SPORT

Gym

Climbing Wall

Swimming Pool

Sports Hall

Catering Facilities

RGU: UNION

**ABERDEEN
BUSINESS SCHOOL**

TV and Radio Suite

Fashion Place

Moot Court

Digital Moffat Space

Georgina Scott
Sutherland Group
Learning Centre

Catering Facilities

GARTHDEE HOUSE

**GRAY'S
SCHOOL OF ART**

Printmaking Suite

Sculpture Studio

Mac Suite

Photography
Studio

Exhibition Spaces

Catering Facilities

An inspirational learning environment

Designed to enhance your learning experience, our modern campus houses an extensive range of cutting-edge teaching facilities and equipment including:

- Cyber Security laboratory
- Network Management laboratory
- DART training facility which simulates drilling on an oil platform
- Clinical Skills Centre - mock hospital wards
- Human Performance laboratory
- Digital imaging X-ray suite
- Three-dimensional motion analysis system
- Bioanalytical tissue culture and microscopy facility
- Clean Room suite
- Moot court
- TV and radio studios
- Digital Moffat Space
- Green screen
- Modern Mac and IT labs
- World-class sporting facilities at RGU Sport with three gyms, 25m pool, sports hall and climbing wall
- Landmark library tower overlooking Aberdeen and the River Dee

Kyle Martin

MSc Software Technology
with Network Management

(now IT with Network Management),
Research Student at Robert Gordon University
(PhD)

What did you do prior to postgraduate study?

I had previously completed a BA (Hons) in
Journalism at Robert Gordon University, and had
a lot of work experience in that field producing
videos for clients including CLAN and YPI.

What are you studying and what do you enjoy most about it?

I'm currently studying a PhD funded by BT to
research the development of a machine learning
system, which can support engineers in the field.
I enjoy being at the forefront of research, and the
opportunity to explore the development of new
pieces of software.

In what ways do you feel your postgraduate studies have helped your career path?

I can safely say that I would not have been able to
study my PhD were it not for my previous MSc. In
particular, my MSc project was what made me an
attractive candidate.

What advice would you give to students pursuing postgraduate study?

When studying, seriously consider the nature of
your MSc/BSc project. It can be a real selling point
for you, and often the difference between you
receiving your desired job and not.

John Guyan

MSc Software Technology
with Network Management

(now IT with Network Management)

Why did you choose to study at RGU?

I love how modern the University is, and the fact
that it boasts such a high employment rate helps.

What is the best thing about your course / studying at RGU?

The facilities are fantastic, I particularly love how
modern RGU is. I also find the staff to generally
be fantastic when it comes to providing support, I
almost always feel staff members have time to help
their students.

What experience have you gained during your postgraduate study and how will this help your future career plans?

Through this course, I've developed a much
better knowledge of many aspects of computing,
particularly in regards to programming. As I aim to
pursue a career in the field of programming after
I finish this course, I feel this course has helped
me greatly.

What are your top tips for those considering postgraduate study at RGU?

Do it – be prepared to put in the effort and you'll
get what you want out of it.

Expanding your possibilities

Lifelong learning and Continuing Professional Development

Whether you are an individual looking to further your career, or a manager responsible for the development and training of your staff, Continuing Professional Development (CPD) is fundamental to the development of any career.

CONTINUING PROFESSIONAL DEVELOPMENT (CPD)

Lifelong learning is considered to be an integral part of personal development, and allows you to keep abreast of innovation within your field.

We provide a range of short course modules, teaching and CPD programmes, delivered in a variety of study modes. Find out what we offer at:

www.rgu.ac.uk/profdev
E: CSDM-ShortCourses@rgu.ac.uk
T: 01224 262700

BENEFITS FOR INDIVIDUALS

- By updating your skills, you will confidently adapt to changes in your industry sector
- You can increase your earning potential
- You will demonstrate a commitment to your profession and your career

BENEFITS FOR EMPLOYERS

- CPD support from an employer can increase and boost staff morale
- Improves recruitment and retention of highly skilled staff
- Individuals will have the skills to react more readily to changes in the sector

PROFESSIONAL STUDIES FRAMEWORK

The Professional Studies Framework (PSF) enables students who have successfully undertaken modules and earned academic credit to use that credit to gain an academic award.

For further information, please go to:
www.rgu.ac.uk/psf

TAILORED DEVELOPMENT FOR ORGANISATIONS

Our dedicated professional development team can provide tailored CPD opportunities to meet the needs of organisations, including bespoke education and training delivered in the workplace. We offer consultations to help plan CPD activities, online and blended learning for your business.

If you are responsible for the development of your staff and would like to know more about this service, please visit:
www.rgu.ac.uk/business-services

Finding your direction

Our Careers and Employability Centre

DEDICATED SPECIALISTS

We have a dedicated centre with a team of career consultants, offering a full range of services to assist individual career planning, job searching and employability needs.

We can support you in recognising and developing your transferable skills, both within and outwith your studies to allow you to secure your perfect opportunity.

The Careers and Employability Centre provides practical career planning advice and job search support to all students and recent graduates of the University. We can assist with your advanced level study and career options you are considering.

Full in-depth career mentoring and careers guidance sessions are available to current students.

CAREER TOOLKIT

When you enrol as a student at RGU, you gain access to 'My Career Toolkit' an online resource with interactive employability topics to help you manage your career.

ON CAMPUS RECRUITMENT

Employers are keen to speak to our students directly and to facilitate this we arrange on-campus recruitment and applications skills presentations where employers can raise the profile of their company and provide more information on the opportunities that they have as well as the benefits of working for their particular company.

CAREERS FAIRS

We organise two large scale Careers Fairs per year, The RGU Careers Fair in October and the North of Scotland Graduate Careers Fair in Spring.

FOR MORE INFO

Our Careers Office is always happy to answer any queries you may have:
Call us on 01224 262110
email **careers@rgu.ac.uk**
or visit **www.rgu.ac.uk/careers**

World-class research

Robert Gordon University has a reputation for internationally excellent and world-leading research that is of direct benefit to society.

Our research generates improvements in the quality of life, helps support more innovative businesses, unlocks cultural creativity and contributes towards a more successful and sustainable economy. In short, Robert Gordon University's research makes a difference.

RESEARCH WITHIN THE SCHOOL

Our main research areas are:

- Machine Learning
- Artificial Intelligence
- Data Visualisation
- Usability & Accessibility
- Computer Security & Privacy

The School of Computing Science and Digital Media has internationally recognised research pushing the boundaries of theoretical and practical knowledge in Computing and offering novel thinking on how technology can enrich society and enable business to perform at a higher level. The school's research focuses on tackling key challenges in Big Data and the Internet of Things and on developing novel techniques that help industries and public sector to make sense of data. Researchers from the School actively pursue project opportunities and collaborations related to the strategic themes for the University of energy, healthcare, business and design.

SMART DATA

Our Centre for Smart Data Technologies is developing leading-edge analytical technologies to help the oil and gas industry extract value from the vast amounts of data now collected from rigs, pipelines and other installations on a daily basis. Intelligent analytical tools can provide decision support within demanding operational environments and can be used to mine data to seek new operating efficiencies.

UNIVERSITY RESEARCH THEMES

Business & Enterprise

Cardiovascular & Metabolic Health

Creativity, Design & Innovation

Digital technologies

Energy, Environment & Sustainability

Environmental & Occupational Health

Governance & Society

Information & Communication

Psychosocial & Mental Health

www.rgu.ac.uk/research

Courses

COMPUTING SCIENCE AND
DIGITAL MEDIA

MSc Computer Science

MSc Data Science

MSc Cyber Security

MSc Information Technology

**MSc Information Technology
with Business Intelligence**

**MSc Information Technology with
Cyber Security**

**MSc Information Technology
with Network Management**

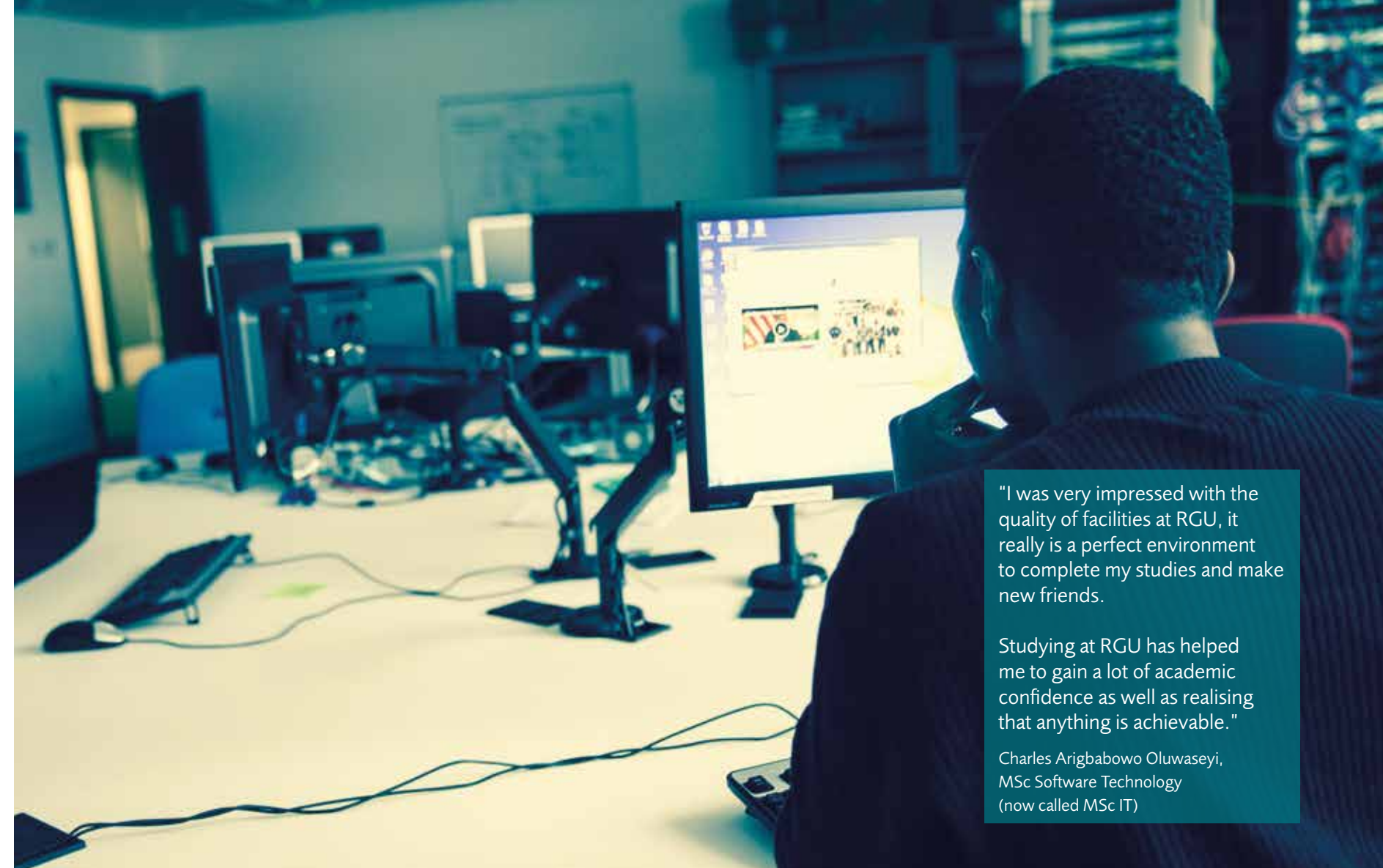**MSc IT for the Oil and
Gas Industry**

INTRODUCTION

We offer a range of specialist postgraduate courses with a focus on skills and expertise for computing technologies and target applications. Whether you have recently graduated, or are looking to retrain or develop your career – whatever your reasons for postgraduate study – we have an excellent reputation for producing high-calibre graduates with transferable skills that can enhance careers.

CAREER OPTIONS IN COMPUTING

Computing is recognised as an exciting, challenging and rewarding area to work in. The pervasive nature of computing and its wide range of applications has produced employment opportunities in many areas. The range spans the industrial sector concerned with the production of foundational hardware and software technology through to the public and business sector with IT solutions deployed in the majority of entrepreneurial businesses.

- Applications Engineer
- Database Developer
- Security Architect/Analyst
- Information Security Officer
- Information Systems Manager
- Data Scientist
- Network Manager
- Software Engineer
- Software Project Manager
- Web Services Developer
- IT developer

"I was very impressed with the quality of facilities at RGU, it really is a perfect environment to complete my studies and make new friends.

Studying at RGU has helped me to gain a lot of academic confidence as well as realising that anything is achievable."

Charles Arigbabowo Oluwaseyi,
MSc Software Technology
(now called MSc IT)

MSc Computer Science

PgCert/PgDip/MSc

PROGRAMME OVERVIEW

It is widely acknowledged that there is an acute IT skills shortage that is detrimental to the growth of digital economies, threatening their competitiveness. Recent surveys confirm that many firms are struggling to recruit workers with the advanced technical IT skills they need.

The MSc Computer Science aims to contribute towards addressing this shortage by producing IT professionals with the necessary advanced skills required to solve challenges faced by industry and commerce in areas such as Cloud Computing, Big Data Analytics and Web Services Development. The course will give graduates an understanding of current trends in computing and allow them to develop sophisticated IT solutions that use and integrate state-of-the-art technologies.

HOW YOU WILL LEARN

You will learn to use modern software tools and environments, allowing you to match these to the needs of industry and commerce. In parallel you will practice development and management methodologies for providing and supporting high-quality software solutions. The technical content of the course is directed towards the study of state-of-the-art software development tools and techniques.

Throughout the course, content is complemented by practical work, allowing you to support your theoretical development. You will be taught through a mixture of lectures, tutorials, labs and talks from external speakers.

During your course you will be invited to attend talks presented by highly experienced researchers, speakers from industry, and members of the BCS (British Computer Society) on a wide range of computing topics. You will also be supported through our online virtual learning environment where you can access a wide variety of resources and other support materials.

The MSc project will provide an opportunity for applying your knowledge, problem-solving, managerial and communication skills to your area of interest. This could be a research or industry based project.

Industrial internship

Application for this (optional) internship is by invitation only and is based on your first semester results.

The paid internship runs for between 30 to 45 weeks. During your internship you will be supported by staff within the company and a supervisor from the School. On completion of the internship you will be required to produce a report and a presentation on the project and the progress made.

BENEFITS TO YOU

The MSc Computer Science course will allow those from computing backgrounds to gain the required specialised skills and knowledge to develop and further a career in IT. One of the unique selling points of this course is the opportunity to go on an optional one year placement (internship) in industry.

The course is also available on a part-time basis, allowing you to study around other commitments.

You will:

• Gain experience of state-of-the-art software development tools and techniques.

• Enjoy the opportunity to hear from highly experienced speakers in research, industry, and members of BCS.

YOU WILL LEARN TO

• Develop an understanding of current computing trends

• Proficiently use modern software tools, technologies and frameworks

• Match these tools and technologies to the needs of commerce and industry

• Integrate these tools and techniques to develop high quality information systems

"The best thing about the course is that it is more applied than theoretical, especially course work and labs which were a lot of fun to complete.

The MSc project gives each individual student an opportunity to explore new horizons using their own ideas and innovations in solving the problem they've identified which to me was very exciting."

Sandeep Gopisetty
MSc Information Engineering
(now MSc Computer Science)

COURSE CONTENT

- Cloud Computing
- Big Data Analytics and Visualisation
- Data Mining
- Database and Web Security
- Information Retrieval
- Professional Development and Research Skills
- Systems Programming and Security
- Object Oriented Programming
- MSc Project Investigation
- MSc Project

CAREER OPTIONS

Aberdeen is home to many multinational oil and gas companies and associated suppliers such as mainstream software houses, IT providers to major oil-related companies, specialist software consultancies, and venture capital start-ups.

The University is involved in a number of commercial collaborations on a local, national and international scale.

Our graduates are now widely spread across various sectors, for example: IT software and service organisations; Technology services, Energy, Finance, Health and Science, Engineering and Construction.

Career Opportunities exist in the analysis, design, implementation and management of software projects; the development of web applications and services; consultancy work in software

architectures, Big Data Analysis and Cloud Computing. Previous graduates have gone to work as IT consultants, software engineers, network managers and administrators, database developers and administrators, and web services developers.

This course also prepares students for research careers by providing the skills necessary of an effective researcher.

ENTRY REQUIREMENTS

This course is suitable for those who hold an honours degree in computing or in a discipline with significant computing content. This requirement can be relaxed for candidates with significant relevant industrial experience who are looking to formalise their experience and develop their careers in the provision of IT solutions.

If English is not your first language, you must gain either IELTS 6.0 or its equivalent prior to receiving an unconditional offer of a place.

STUDY OPTIONS	START DATE
Full-time, 1 year Part-time, 2-3 years	September
FEES AND FURTHER INFORMATION	FOR MORE INFORMATION
www.rgu.ac.uk/msc-computer-science	Dr Hatem Ahriz T: +44(0)1224 262787 h.ahriz@rgu.ac.uk

Adekunbi Adeyinka Adewojo
Computing Information Engineering
(now MSc Computer Science)

What got you interested in this course?
I was actually interested in studying Software Technology, but I wasn't given admission to study it because I had a computer science background, so my other option was CIE, and after looking at the course content I got fascinated by the some of the courses like Adaptive Intelligent system, Data Mining and Intelligent Web technology.

How would you sum up your RGU experience?
My experience in RGU was a great and blessed one. The induction programme provided an easy settling for me and I acquired useful skills needed for the course and beyond. I met with lecturers and students from different countries, who were all friendly and helpful. During my project, my supervisor (Dr Kit-ying Hui) was of great help. The university also provided facilities that made studying in RGU worthwhile.

How did your course help you in your career (or internship)?
I learnt new courses and topics in computing that broadened my knowledge and introduced me to current trends in computing. The internship helped me learn to work independently, cope with work-related pressures, improved my writing skills and also find innovative solutions to challenges in the computing world.

How did you find life in Aberdeen?
I found living in Aberdeen very interesting. I was blessed with good friends that helped me settle down quickly. I explored Aberdeen and a bit of Scotland; and I enjoyed every bit of it. I also enjoyed every change in the seasons from autumn, winter, spring and summer.

MSc Data Science

PgCert/PgDip/MSc

PROGRAMME OVERVIEW

Data science has been frequently reported to be a top job in the 21st century. Industrial Data Science involves the acquisition, analysis, documentation and storage of valuable data at all stages of the processes carried out by industry and other organisations. The role of a Data Scientist in industry is to facilitate and support business decisions by extracting information which is implicit in the data and presenting it in an easy to understand form, at different levels of detail as required by decision-making experts (e.g. Engineers, Geoscientists, Chemists and Company Directors).

The course aims to produce specialist data scientists with training in industry relevant data acquisition, storage, warehousing, analytics and visualisation tools and techniques and a good understanding of the needs of industry. The course will prepare graduates in technical disciplines for a career in the design and implementation of computer-analytics and visualisation solutions for industry.

You will learn to develop and use modern data visualisation and analysis software tools, allowing you to match these to the needs of industry. In parallel you will practise development and management of data storage solutions including data mining, machine learning, relational databases, NoSQL databases, data warehousing and big data. The technical content of the course is directed towards the study of state-of-the-art software tools and techniques as well as broad knowledge of industry-specific business needs in order to use data analytics to support key business processes and decisions.

HOW YOU WILL LEARN

You will be taught through a mixture of lectures, tutorials, labs and external speakers. During your course you will be invited to talks by experienced researchers, speakers from industry, and members of the BCS (British Computer Society) on a range of computing topics such as Cloud computing and legal issues with outsourcing. You will also be supported through our online virtual learning environment, Campus Moodle where you can access a wide variety of resources and support materials. Content is complemented by practical work allowing you to support your theoretical development by providing real-life simulation.

COURSE CONTENT

- Advanced data management
- Data mining
- Data warehousing
- Information Retrieval
- Advanced data science
- Data science development
- Big Data Analytics and visualisation
- Professional development and research skills
- MSc project investigation
- MSc project

Individual project

The individual project is a significant component of the MSc and provides an opportunity for applying specialist knowledge together with analytic, problem-solving, managerial and communication skills to a particular area of interest within the application of Data Analytics solutions for improved business decision-making. Working with the full support and guidance of an allocated project supervisor, you will be given the opportunity to propose, plan, specify, develop, evaluate, and present a substantial Data Science project.

BENEFITS TO YOU

The course will allow those from computing, mathematics or statistics backgrounds to gain the required skills and knowledge to develop a career in Data Science and satisfy the increasing demand for highly specialised data scientists, data analysts, data engineers and data managers. The course is also available on a part-time basis, allowing you to study around other commitments.

CAREER OPTIONS

This course will allow you to gain the knowledge and skills required to work within a variety of industries and organisations. Typical target roles would include Data Scientist, Data Analyst, Data Visualisation Specialist, Data Manager, Database Designer/Manager, Data Mining Expert, Big Data Scientist.

Industrial internship

Application for this (optional) internship is by invitation only and is based on your first semester results. The paid internship runs for between 30 to 45 weeks. During your internship you will be supported by staff within the company and a supervisor from the School. On completion of the internship you will be required to produce a report and a presentation on the work experience.

ENTRY REQUIREMENTS

This course is suitable for those who hold an honours undergraduate degree with significant computing, mathematics or statistics content and are looking to work as Data Analysts.

This course is also suitable for those who are currently working within industry and are looking to formalise their experience and develop their careers in the provision of data analysis solutions for industry.

If English is not your first language, you must gain either IELTS 6.0 or its equivalent prior to receiving an unconditional offer of a place.

STUDY OPTIONS	START DATE
Full-time, 1 year Part-time, 2-3 years	September and January
FEES AND FURTHER INFORMATION	FOR MORE INFORMATION
www.rgu.ac.uk/datascience	Eyad Elyan T: +44(0)1224 262737 CSDM-MSc-enquiry@rgu.ac.uk

MSc Cyber Security

PgCert/PgDip/MSc

PROGRAMME OVERVIEW

An increasing number of organisations and businesses store, manipulate and communicate valuable and confidential information electronically. However, a formidable array of threats compromise the security and privacy of this information and undermines the growth of digital economies. At the same time, it is widely acknowledged that there is an acute skills shortage that is preventing organisations from being suitably prepared to face the growing threats of cyber attacks.

The MSc Cyber Security aims to contribute towards addressing this skills shortage by producing IT security professionals with training in industry relevant tools, techniques and standards to defend systems and networks against modern threats. The course will provide the graduates with skills that are highly sought after by business, industry and government.

HOW YOU WILL LEARN

You will learn to use modern software tools and environments (e.g. Kali Linux), allowing you to match these to the needs of industry. Topics will include: Ethical Hacking (reconnaissance, vulnerability scanning and exploitation), Windows and UNIX security, Malware analysis, Intrusion detection, Risk Management, Security Management Frameworks and Standards, Cryptography, Web Applications and databases vulnerabilities and security, and Digital Forensics. In addition, the course is linked to the CISCO academy syllabus and includes topics from CISCO CCNA 1 & 2, as well as CISCO CCNA Security.

Throughout the course, content is complemented by practical work in bespoke CISCO networking and cyber security labs, allowing you to support your theoretical development with real-life simulation. You will be taught through a mixture of lectures, tutorials, labs and talks from external speakers.

During your course you will be invited to attend talks presented by highly- experienced researchers, speakers from industry, and members of the British Computer Society (BCS) on a wide range of security related topics. You will also be supported through our online virtual learning environment where you can access a wide variety of resources and support materials.

The MSc project will provide an opportunity for applying your knowledge, problem-solving, managerial and communication skills to your area of interest. This could be a research or industry based project.

Industrial internship

Application for this (optional) internship is by invitation only and is based on your first semester results.

The paid internship runs for between 30 to 45 weeks. During your internship you will be supported by staff within the company and a supervisor from the School. On completion of the internship you will be required to produce a report and a presentation on the project and the progress made.

BENEFITS TO YOU

The MSc Cyber Security course allows those from computing backgrounds to gain the required specialised skills and knowledge to develop a career within an IT security role in industry, business and government.

The course is also available on a part-time basis, allowing you to study around other commitments.

You will:

- Work with relevant tools and techniques in modern bespoke CISCO networking and cyber security labs.

- Enjoy the opportunity to hear from highly experienced speakers in research, industry, and members of the British Computer Society (BCS).

YOU WILL LEARN TO

- Proficiently use state-of-the-art techniques, tools and methodologies for the design, implementation and maintenance of secure information systems and networks

- Understand the legal requirements of information security and implement information security standards

- Audit the security controls put in place by organisations and assess their level of readiness for cyber attacks

- Investigate cyber-attacks and help recover information systems and networks

COURSE CONTENT

- Information Security Management
- Security Testing
- Incident Management and Forensics
- Network Switching and Routing (based on CISCO CCNA 1-2)
- Network Security (based on CISCO CCNA Security)
- Systems Programming and Security
- Database and Web Security
- Professional Development & Research Skills
- MSc Project Investigation
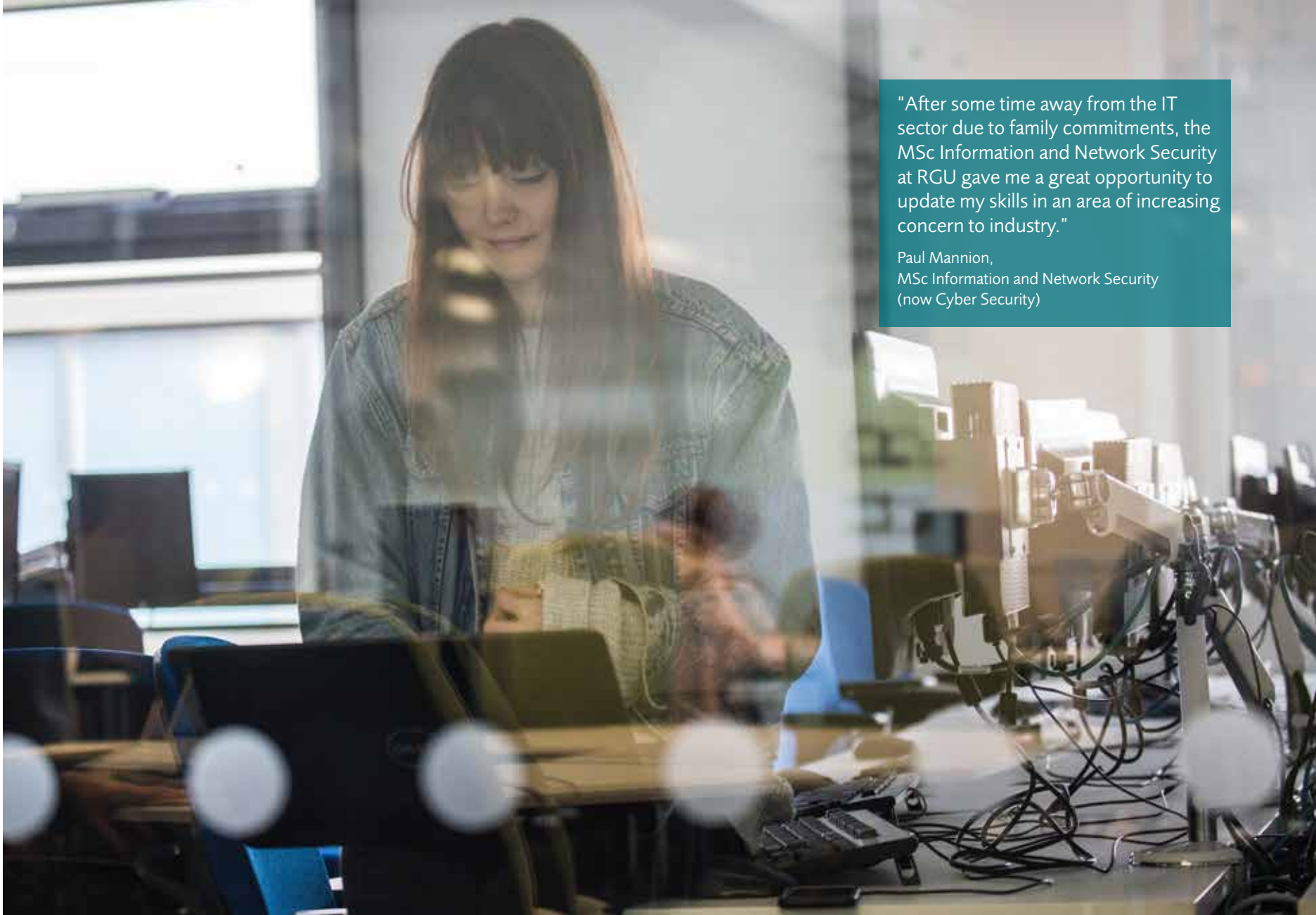- MSc Project

CAREER OPTIONS

This course will allow you to gain the knowledge and skills required to work within a diverse number of security roles including: IT Security Officer, Security Auditor, Penetration Tester, Security & Information Risk Adviser, e-business Security Analyst, IT Fraud Specialist, Digital Forensics Analyst, Network Manager and Systems Administrator.

This course also prepares students for research careers by providing the skills necessary for an effective researcher.

ENTRY REQUIREMENTS

This course is suitable for those who hold an honours degree in computing (or a discipline with significant computing content) and are looking to specialise in the field of cyber security. This course is also suitable for those with significant relevant industrial experience who are looking to formalise their experience and develop their careers in the field of computer and network security.

If English is not your first language, you must gain either IELTS 6.0 or its equivalent prior to receiving an unconditional offer of a place.

STUDY OPTIONS	START DATE
Full-time, 1 year (September start) or 17 months including summer break (Jan start)	September and January

FEES AND FURTHER INFORMATION	FOR MORE INFORMATION
www.rgu.ac.uk/msc-info-net-security	Dr Haterm Ahriz T: +44(0)1224 262787 h.ahriz@rgu.ac.uk

"After some time away from the IT sector due to family commitments, the MSc Information and Network Security at RGU gave me a great opportunity to update my skills in an area of increasing concern to industry."

Paul Mannion,
MSc Information and Network Security
(now Cyber Security)

MSc Information Technology

PgCert/PgDip/MSc

PROGRAMME OVERVIEW

The course provides an opportunity for graduates of non-computing disciplines to develop the specialist skills suitable for a career in Computing with a focus on software development.

It allows those who wish to apply their knowledge and expertise in a technical environment to develop the computing skills needed to match software solutions to the needs of business. The course is suitable for graduates wishing to transition into an IT career from other disciplines, as well as for candidates wishing to extend their existing IT experience with a formal Computing qualification.

You will develop skills in software development, database systems, and web programming, as well as the research and development skills required to undertake a sustained piece of software project work. The Information Technology course is designed to provide the core knowledge and skills required to work within the IT industry, using software development tools and techniques to extend and enhance the knowledge and skills of non-computing graduates.

This course is available to study full-time or part-time. The part-time mode is ideal if you would like to develop your career, but are unable to commit to full-time study.

HOW YOU WILL LEARN

You will learn to use modern software tools and environments, allowing you to match these to the needs of commerce and industry using appropriate development methodology to provide high quality software solutions.

The core technical content of the course is directed towards the study of state-of-the-art tools and techniques in the fields of software development, database systems and web programming. Throughout the course, content is complemented by practical work, allowing you to support your theoretical understanding by developing real-world problem solving skills and gaining practical experience.

You will be taught through a mixture of lectures, tutorials, labs and external speakers, supported through our online virtual learning environment affording access to a wide variety of resources and support materials.

Group and Individual Projects

- You will work on a group project designed to simulate a number of industry-relevant challenges and develop team-working skills.

- You will also undertake a substantial individual project allowing you to extend and focus skills on a topic of particular interest.

COURSE CONTENT

- Object Oriented Programming
- Data Management
- IT Infrastructure and Service Management
- Computing Law and Ethics
- Intranet Systems Development
- Software Project Engineering
- Data Visualisation and Analysis
- User-centred Design
- MSc Project Investigation
- MSc Project

The University regularly reviews its courses.

Course content and structure may change over time. See our Course Disclaimer for more information.

CAREER OPTIONS

Graduates could go on to work in a wide variety of IT careers, for example, to work as software engineers, applications developers, business analysts, database developers, world wide web developers, network managers and administrators. They could also go on to pursue careers in research and academia.

BENEFITS TO YOU

- The course allows those from non-computing backgrounds to gain the required skills and knowledge to develop a career within the IT industry

- The course is available on a full-time or part-time basis, allowing you to study around other commitments
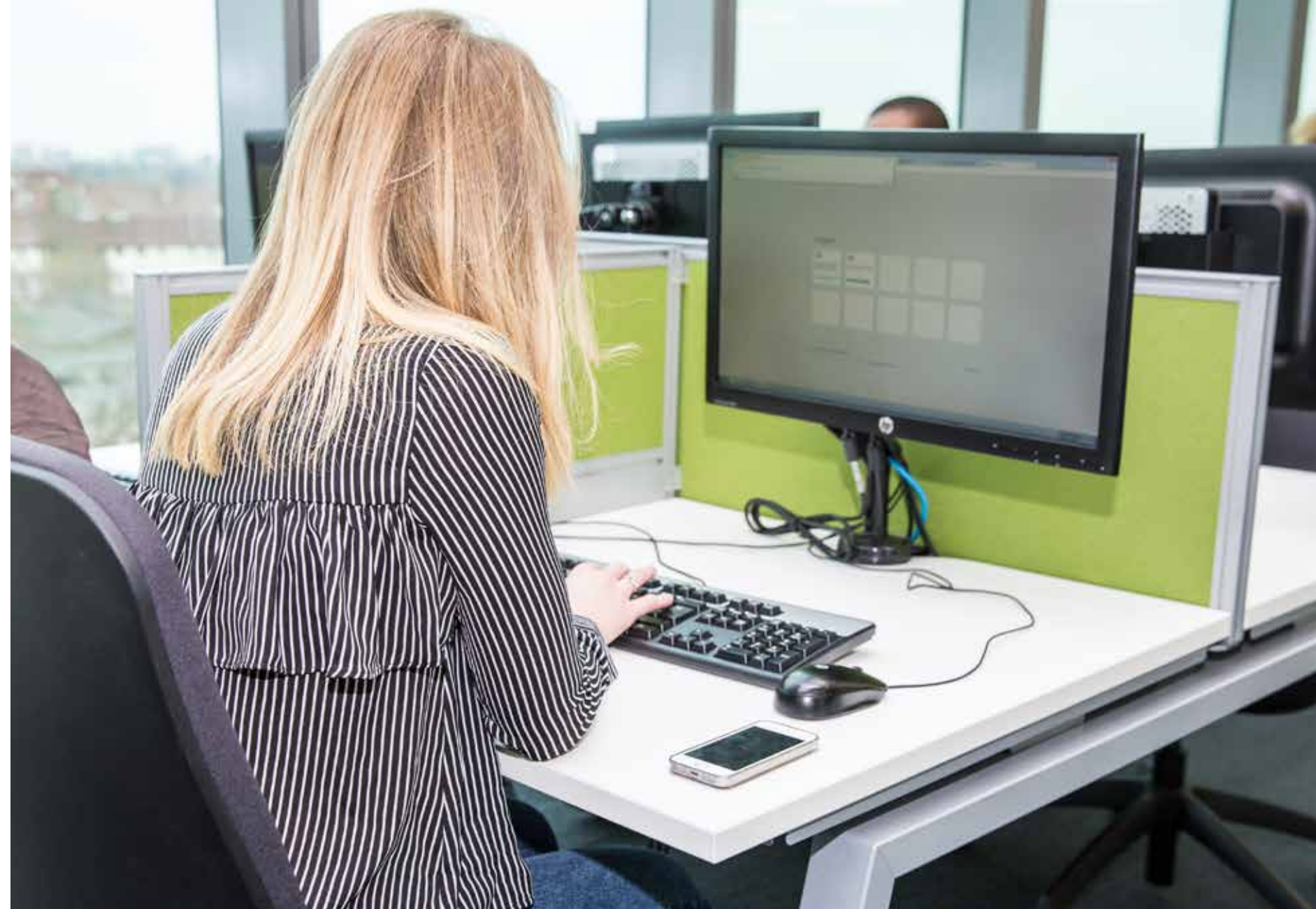
YOU WILL LEARN TO:

- Proficiently use modern software tools and environments

- Design and implement software with a user-centred focus, and to create software systems compliant with legal and ethical frameworks

- Align IT services with the needs of clients in industry, business and academia

- Integrate the use of IT tools and techniques in the framework of an appropriate development methodology to develop high quality software solutions

ENTRY REQUIREMENTS

This course is ideal for students who possess an honours degree in a non-computing discipline. This requirement may be relaxed for applicants with significant industrial experience.

If English is not your first language, you must gain either IELTS 6.0 or its equivalent prior to receiving an unconditional offer of a place.

STUDY OPTIONS	START DATE
Full-time September start: 12 months Full-time January start: 17 months Part-time: 24-36 months	September and January
FEES AND FURTHER INFORMATION	FOR MORE INFORMATION
www.rgu.ac.uk/msc-it	David Lonie 01224 262 705 d.p.lonie@rgu.ac.uk

MSc Information Technology with Business Intelligence

PgCert*/PgDip/MSc

PROGRAMME OVERVIEW

The course provides an opportunity to develop the skills suitable for a career in Computing with specialist subjects in software development and business intelligence (data science/data analysis).

It allows those who wish to apply their knowledge and expertise in a technical environment to develop the computing and business intelligence skills needed to match software solutions to the needs of business. The course is suitable for graduates wishing to transition into an IT career from other disciplines, as well as for candidates wishing to extend their existing IT experience with a formal Computing qualification.

You will develop skills in business intelligence/data science, software development, database systems, and web programming, as well as the research and development skills required to undertake a sustained piece of data science or software development project work. The course is designed to provide the core computing and business intelligence knowledge and skills required to work within the IT industry, using software development and business intelligence tools and techniques to extend and enhance the knowledge and skills of non-computing graduates.

This course is available to study full-time or part-time. The part-time mode is ideal if you would like to develop your career but are unable to commit to full-time study.

HOW YOU WILL LEARN

You will learn to use modern software tools and business intelligence environments, allowing you to match these to the needs of commerce and industry using appropriate development methodology to provide high quality solutions.

The core technical content of the course is directed towards the study of state-of-the-art tools and techniques in the fields of software development, business intelligence, database systems and web programming. Throughout the course, content is complemented by practical work, allowing you to support your theoretical understanding by developing real-world problem solving skills and gaining practical experience.

You will be taught through a mixture of lectures, tutorials, labs and external speakers, supported through our online virtual learning environment affording access to a wide variety of resources and support materials.

Group and Individual Projects

- You will work on a group project designed to simulate a number of industry-relevant challenges and develop team-working skills.

- You will also undertake a substantial individual project allowing you to extend and focus skills on a topic of particular interest.

COURSE CONTENT

- Object Oriented Programming
- Data Management
- Data Warehousing*
- IT Infrastructure and Service Management
- Data Visualisation and Analysis
- Data Science Development*
- Intranet Systems Development
- Software Project Engineering
- MSc Project Investigation
- MSc Project

*Award of PGCert in Information Technology with Business Intelligence requires 15 credits from a minimum of one asterisked module.

The University regularly reviews its courses. Course content and structure may change over time. See our Course Disclaimer for more information.

CAREER OPTIONS

Graduates could go on to work in a wide variety of IT careers, for example, to work as network managers, network administrators, software engineers, applications developers, business analysts, database developers and world wide web developers. They could also go on to pursue careers in research and academia.

BENEFITS TO YOU

- The course allows those from non-computing backgrounds to gain the required skills and knowledge to develop a career within the IT industry and to develop specialist knowledge and skills relevant to working in the fields of data analytics and big data

- The course is available on a full-time or part-time basis, allowing you to study around other commitments

YOU WILL LEARN TO:

- Proficiently use modern software tools and environments

- Apply state of the art techniques in data warehousing and data visualisation and analytics to extract meaning and value from big data

- Align IT services with the needs of clients in industry, business and academia

- Integrate the use of IT tools and techniques in the framework of an appropriate development methodology to develop high quality software solutions

ENTRY REQUIREMENTS

This course is ideal for students who possess an honours degree in a non-computing discipline. This requirement may be relaxed for applicants with significant industrial experience.

If English is not your first language, you must gain either IELTS 6.0 or its equivalent prior to receiving an unconditional offer of a place.

STUDY OPTIONS	START DATE
Full-Time September start: 12 months Full-Time January start: 17 months Part-Time: 24-36 months	September and January
FEES AND FURTHER INFORMATION	FOR MORE INFORMATION
www.rgu.ac.uk/msc-it-bi	David Lonie 01224 262 705 d.p.lonie@rgu.ac.uk

MSc Information Technology with Cyber Security

PgCert*/PgDip/MSc

PROGRAMME OVERVIEW

The course provides an opportunity to develop the skills suitable for a career in Computing with specialist subjects in cyber security, enabling students to learn how to create and manage secure computer systems.

It allows those who wish to apply their knowledge and expertise in a technical environment to develop the cyber security skills required to develop and maintain secure computer systems and the computing skills needed to match software solutions to the needs of business. The course is suitable for graduates wishing to transition into an IT career from other disciplines, as well as for candidates wishing to extend their existing IT experience with a formal Computing qualification.

This course is available to study full-time or part-time. The part-time mode is ideal if you would like to develop your career but are unable to commit to full-time study.

HOW YOU WILL LEARN

You will learn to develop and manage the modern software tools and secure information systems demanded by industry using appropriate development methodology to provide high quality, secure software systems.

The core technical content of the course is directed towards the study of state-of-the-art tools and techniques in the fields of information and security management, software development, secure database systems and web security. Throughout the course, content is complemented by practical work, allowing you to support your theoretical understanding by developing real-world problem solving skills and gaining practical experience.

You will be taught through a mixture of lectures, tutorials, labs and external speakers, supported through our online virtual learning environment affording access to a wide variety of resources and support materials.

Group and Individual Projects

- You will work on a group project designed to simulate a number of industry-relevant challenges and develop team-working skills.

- You will also undertake a substantial individual project allowing you to extend and focus skills on a topic of particular interest.

COURSE CONTENT

- Information Security Management*
- IT Infrastructure and Service Management
- Object Oriented Programming
- Data Management
- Database and Web Security*
- Intranet Systems Development
- Software Project Engineering
- Data Visualisation and Analysis
- MSc Project Investigation
- MSc Project

*Award of PGCert in Information Technology with Cyber Security requires 15 credits from a minimum of one asterisked module.

The University regularly reviews its courses. Course content and structure may change over time. See our Course Disclaimer for more information.

CAREER OPTIONS

Graduates could go on to work in a wide variety of IT careers, for example, to work as software engineers, applications developers, business analysts, database developers, world wide web developers, network managers and administrators. They could also go on to pursue careers in research and academia.

BENEFITS TO YOU

• The course allows those from non-computing backgrounds to gain the required skills and knowledge to develop a career within the I.T. industry and to develop specialist knowledge and skills relevant to the field of cyber security

• The course is available on a full-time or part-time basis, allowing you to study around other commitments

YOU WILL LEARN TO

• Proficiently use modern software tools and environments

• Apply state-of-the-art techniques, tools and methodologies for the design, implementation and maintenance of secure information systems and networks

• Align IT services with the needs of clients in industry, business and academia

• Integrate the use of IT tools and techniques in the framework of an appropriate development methodology to develop high quality software solutions

ENTRY REQUIREMENTS

This course is ideal for students who possess an honours degree in a non-computing discipline. This requirement may be relaxed for applicants with significant industrial experience.

If English is not your first language, you must gain either IELTS 6.0 or its equivalent prior to receiving an unconditional offer of a place.

STUDY OPTIONS	START DATE
Full-Time September start: 12 months Full-Time January start: 17 months Part-Time: 24-36 months	September and January

FEES AND FURTHER INFORMATION	FOR MORE INFORMATION
www.rgu.ac.uk/msc-it-cyber-security	David Lonie 01224 262 705 d.p.lonie@rgu.ac.uk

MSc Information Technology with Network Management

PgCert*/PgDip/MSc

PROGRAMME OVERVIEW

The course provides an opportunity to develop the skills suitable for a career in Computing with specialist subjects network management, routing and switching taught by Cisco-accredited trainers in our state-of-the-art Networking labs.

It allows those who wish to apply their knowledge and expertise in a technical environment to develop the computing and network management skills needed to match software solutions to the needs of business. The course is suitable for graduates wishing to transition into an IT career from other disciplines, as well as for candidates wishing to extend their existing IT experience with a formal Computing qualification.

You will learn how to design, implement and manage computer networks, as well as to develop software, database systems, and web applications. In addition, you will acquire the research and development skills required to undertake a sustained piece of network management or software development project work. The course is designed to provide the core knowledge and skills required to work in industry, using network configuration, analysis, troubleshooting and diagnosis tools as well as software development tools and techniques.

This course is available to study full-time or part-time. The part-time mode is ideal if you would like to develop your career but are unable to commit to full-time study.

HOW YOU WILL LEARN

You will learn to use modern software tools and environments, allowing you to match these to the needs of commerce and industry using appropriate development methodology to provide high quality software solutions.

The core technical content of the course is directed towards the study of state-of-the-art tools and techniques in the fields of network routing and switching, wireless networks, software development, database systems and web programming. Throughout the course, content is complemented by practical work, allowing you to support your theoretical understanding by developing real-world problem solving skills and gaining practical experience.

You will be taught through a mixture of lectures, tutorials, labs and external speakers, supported through our online virtual learning environment affording access to a wide variety of resources and support materials.

Group and Individual Projects

You will work on a group project designed to simulate a number of industry-relevant challenges and develop team-working skills.

You will also undertake a substantial individual project allowing you to extend and focus skills on a topic of particular interest.

COURSE CONTENT

- Network Switching and Routing*
- Object Oriented Programming
- Data Management
- IT Infrastructure and service management
- Network Security*
- Intranet Systems Development
- Software Project Engineering
- Data Visualisation and Analysis
- MSc Project Investigation
- MSc Project

*Award of PGCert in Information Technology with Network Management requires 15 credits from a minimum of one asterisked module.

The University regularly reviews its courses. Course content and structure may change over time. See our Course Disclaimer for more information.

CAREER OPTIONS

The course prepares you for a career in information and network security. Job openings include: IT security engineer, information and data security analyst, network manager, IT security developer, IT risk and fraud specialist and e-business security analyst.

Aberdeen is home to many multinational oil and gas companies and associated suppliers such as mainstream software houses, IT providers to major oil-related companies, specialist software consultancies, and venture capital start-ups.

The university is involved in a number of commercial collaborations on a local, national and international scale with organisations such as BP, British Geological Survey, Wood Group PSN, Accenture, WIPRO and many Aberdeen-based software development companies.

The course also prepares students for research careers by providing the skills necessary of an effective researcher. Suitable MSc graduates may continue to PhD programmes within the School. Further information can be found the School of Computing and Digital Media Postgraduate Research pages.

STUDY OPTIONS	START DATE
Full-Time September start: 12 months Full-Time January start: 17 months Part-Time: 24-36 months	September and January
FEES AND FURTHER INFORMATION	FOR MORE INFORMATION
www.rgu.ac.uk/msc-it-network-management	David Lonie 01224 262 705 d.p.lonie@rgu.ac.uk

BENEFITS TO YOU

• The course allows those from non-computing backgrounds to gain the required skills and knowledge to develop a career within the IT industry, and to develop specialist knowledge and skills in network security and management

• The course is available on a full-time or part-time basis, allowing you to study around other commitments

YOU WILL LEARN TO

• Proficiently use modern software tools and environments

• Create, manage and secure computer networks

• Align IT services with the needs of clients in industry, business and academia

• Integrate the use of IT tools and techniques in the framework of an appropriate development methodology to develop high quality software solutions

ENTRY REQUIREMENTS

This course is ideal for students who possess an honours degree in a non-computing discipline. This requirement may be relaxed for applicants with significant industrial experience.

If English is not your first language, you must gain either IELTS 6.0 or its equivalent prior to receiving an unconditional offer of a place.

MSc IT for the Oil and Gas Industry

PgCert/PgDip/MSc

PROGRAMME OVERVIEW

The oil and gas industry involves the acquisition, analysis, documentation and storage of valuable data at all stages of the surveying, extraction and production processes. The role of an IT specialist in this competitive industry is to facilitate and support secure and reliable management and access of data to other specialists within a company or between industry partners. To do this requires not only IT expertise but also a familiarity with the processes and terminology used in the industry.

The MSc IT for the oil and gas Industry aims to produce IT practitioners with training in industry relevant software development tools and techniques and a good understanding of the oil and gas industry. The course will prepare graduates in technical disciplines for a career in the design and implementation of information technology solutions and service management in the oil and gas industry and its IT providers.

HOW YOU WILL LEARN

You will learn to use modern software tools and environments, allowing you to match these to the needs of the oil and gas industry. In parallel you will practise development and management methodologies for providing and supporting high-quality software solutions. The technical content of the course is directed towards the study of state-of-the-art software development tools and techniques as well as broad knowledge of the oil and gas industry.

Throughout the course, content is complemented by practical work, allowing you to support your theoretical development by providing real-life simulation. You will be taught through a mixture of lectures, tutorials, labs and talks from external speakers. During your course you will be invited to attend talks presented by highly-experienced researchers, speakers from industry, and members of the British Computer Society (BCS) on a wide range of computing and oil and gas industry-related topics.

You will also be supported through our online virtual learning environment where you can access a wide variety of resources and other support materials. The course will include sessions with oil and gas companies and IT suppliers.

Group Project

During the MSc, you will work on a group project designed to simulate a number of industry-specific challenges.

Individual Project

The individual project allows you to apply analytical, problem-solving, managerial and communication skills to a particular area of IT relevant to the oil and gas sector.

BENEFITS TO YOU

Our MSc IT for the oil and gas industry course will allow those from non-computing or computing backgrounds to gain the required skills and knowledge to develop a career within an IT role in the oil and gas industry. The course is also available on a part-time basis, allowing you to study around other commitments.

You will:

- Gain experience of relevant software development tools and techniques for the oil and gas industry
- Enjoy the opportunity to hear from highlyexperienced speakers in research, industry, and members of the (BCS)
- Study this course in the Energy Capital of Europe and take advantage of sessions with oil and gas companies and IT suppliers

YOU WILL LEARN TO

- Understand the production stages, processes and terminology associated with the oil and gas industry
- Align IT services with the needs of the oil and gas industry and its IT providers
- Proficiently use modern software tools and environments
- Integrate the use of these IT tools and techniques in the framework of an appropriate development methodology to develop high quality software solutions

COURSE CONTENT

- Data Management
- Oil and Gas Engineering
- IT Infrastructure and Service Management
- Object-Oriented Programming for Oil and Gas
- Petroleum Geoscience
- Collaborative IT Project
- Data Visualisation and Analysis
- Intranet Systems Development
- MSc Project Investigation
- MSc Project

"Lecturers are always helpful, the course content is really broad, the oil and gas aspect is really good, it's given me definitely a better depth of knowledge in the oil and gas industry."

Shiva Persad,
MSc IT for the Oil and Gas Industry

CAREER OPTIONS

Opportunities exist to work within a diverse number of computing roles within the Oil and Gas Industry. Typical target roles would include Applications Support, Systems Analysis, Data Management, Helpdesk Analysts and support of IT infrastructure and Service Management.

ENTRY REQUIREMENTS

This course is ideal for students who possess an honours degree in a technical subject. This requirement may be relaxed for applicants with significant industrial experience.

If English is not your first language, you must gain either IELTS 6.0 or its equivalent prior to receiving an unconditional offer of a place.

"The course exposed me to a wide variety of technologies and gave me an insight on what the expectations are in both the IT and oil and gas industry.

RGU's close link with employers was a key factor in ensuring that the course contained exactly what the industry required. This course has equipped me with the necessary skills to create IT solutions tailored to meet the needs of the oil and gas industry."

Farouk Oyindamola Malick
MSc IT for the Oil and Gas Industry

STUDY OPTIONS	START DATE
Full-time, 1 year (September start) or 17 months including summer break (January start)	September and January
FEES AND FURTHER INFORMATION	FOR MORE INFORMATION
www.rgu.ac.uk/msc-it-oilandgas	David Lonie T: 01224 262705 d.p.lonie@rgu.ac.uk

Emmanuel Eke
IT For the Oil and Gas Industry

Tell us a bit about your background; what brought you to where you are today?

I studied Petroleum Engineering in Nigeria during my undergraduate program and decided to improve my IT/Modelling skills to better equip me for technical work in the Petroleum sector at PhD level.

Why did you choose postgraduate study?

My career goal is to become a lecturer and higher education is required for this. I also needed a global view of the petroleum industry.

What is the best thing about your course / studying at RGU?

What I enjoy most about studying at RGU is the emphasis that the school places on career development. The employment centre is very active. The dynamic nature of the course content is also strategic to the development of individuals who are able to easily fit into the rapidly changing work environment.

Why did you choose to study at RGU?

I chose RGU because of its practical and up-to-date approach to learning and the university's rapidly growing reputation as a centre for empowering excellent career development.

What experience have you gained during your postgraduate study and how will this help your future career plans?

Within the five months that I've spent here, I have gained improved understanding of the oil and gas industry and the relevance of collaboration with others (teamwork) to success.

What are your top tips for those considering postgraduate study at RGU?

The lectures are very important, and it is far better to start personal study of the course modules before the examination season. However, a very useful opportunity is the accessibility of the lecturers to students even after classes. Develop a good rapport with your lecturer and always seek clarifications when in doubt.

Further information
Quick links

POSTGRADUATE COURSES
www.rgu.ac.uk/explorepg

ONLINE STUDY AND COURSES
www.rgu.ac.uk/better-online

POSTGRADUATE EVENTS
www.rgu.ac.uk/openevening

FEES AND FUNDING
www.rgu.ac.uk/pgfees

SCHOLARSHIPS
www.rgu.ac.uk/scholarships

INTERNATIONAL STUDENTS
www.rgu.ac.uk/international

APPLY ONLINE
www.rgu.ac.uk/applyonline

ABOUT YOUR APPLICATION
www.rgu.ac.uk/admissions

ACCOMMODATION
www.rgu.ac.uk/accommodation

SUPPORT DURING YOUR STUDIES
www.rgu.ac.uk/studentservices

How to apply

APPLY ONLINE

The quickest and most efficient method of applying for any postgraduate course at Robert Gordon University is to apply online at **www.rgu.ac.uk/applyonline**

There is no application fee to pay to apply.

BEFORE YOU BEGIN YOUR APPLICATION

'Apply Online' is quick and easy to use, allowing you to complete pages in any order, and you may save your progress and come back to the form as many times as you like.

Supporting documents (certificates, academic transcripts, references and CV) are required to be uploaded at the time of application so please ensure you have these available.

Download full instructions on making an application: **www.rgu.ac.uk/applyonline**

CONTACT US ABOUT YOUR APPLICATION

Our Postgraduate Admissions Office are happy to answer any queries you may have relating to your application.

PgOffice@rgu.ac.uk
Tel: 01224 262209

ENTRY REQUIREMENTS

Most postgraduate courses from RGU are suitable for those who possess a UK undergraduate honours degree or an international undergraduate degree which is comparable to a UK honours degree. Other qualifications and appropriate experience may be considered with entry and is subject to the University's judgement.

Applicants whose first language is not English should gain IELTS 6.0 or equivalent prior to receiving an unconditional offer of a place. For further information visit

www.rgu.ac.uk/english-requirements

Certain courses may have additional conditions for entry. Please ensure you check the individual course information pages for full details of what is required.

INTERNATIONAL STUDENTS

You can apply directly via our online application service or via one of our approved agents worldwide. Our local representatives will be able to advise you on our range of courses and assist you with your visa application.

All international students looking to travel to and study within the UK are required to have a tier 4 visa. In order to study at RGU you must hold a Tier 4 visa under our sponsor licence.

For information relating to visits, visa requirements, funding or for a full list of our country representatives, visit **www.rgu.ac.uk/international**

DOCTORAL RESEARCH

If you are interested in undertaking a research degree and would like to apply to become a research student, please visit:

www.rgu.ac.uk/postgraduate-research
researchdegrees@rgu.ac.uk
Tel: 01224 262155

Fees, funding and scholarships

FUNDING

Postgraduate students will normally make their own arrangements for payment of fees. All fees are listed on individual course pages on our website.

Postgraduate Tuition Fee Loan (PTFL)

Support for postgraduate funding is provided through a Postgraduate Tuition Fee Loan (PTFL), formerly PSAS, the Postgraduate Students Allowance Scheme. It is run by the Student Awards Agency for Scotland (SAAS). The maximum tuition fee loan levels for 2017/18 are £5,500 for full-time courses and £5,500 for part-time courses. You will only be able to secure the maximum fee chargeable for your course up to these values.

Eligible (Scottish domiciled and EU) full-time or part-time students who have accepted a postgraduate place on an eligible course can apply directly to the SAAS for a loan to cover up to £5,500 towards their tuition fees.

Students enter into an agreement based on the terms and conditions of the Income Contingent Repayment Loan. Repayment is directly linked to income, through the income tax system, ensuring that monthly repayments are affordable.

EU students are also eligible to apply to SAAS for a tuition fee loan. They will need to get a UK National Insurance number to become eligible. Further information can be found at **www.rgu.ac.uk/pgfees**

The application form is available to download from SAAS website. You should monitor the SAAS website for updates. **www.saas.gov.uk**

FUNDED PLACES

For the 2017/18 intake period we are pleased to announce that, for Scottish/EU applicants, the following courses have a number of full-time MSc places, where the tuition fees are funded by the Scottish Funding Council (SFC):
-   MSc Cyber Security
-   MSc IT for the Oil and Gas Industry
-   MSc Data Science

To be eligible, applicants must have been resident in Scotland or the EU for at least three years and not for the purposes of study.

These places will be allocated on a first-come first-served basis to suitable candidates. To find out more, contact: pgoffice@rgu.ac.uk

Payment options

There are payment instalment options available, but how and when you pay is determined by factors such as where you live as well as your chosen mode of study (fulltime, part-time or online).

20% Alumni Loyalty Discount

We offer our alumni a 20% loyalty discount on the University's postgraduate course fees. The discount applies to both home and overseas alumni (holders of undergraduate degrees from Robert Gordon University) who commence postgraduate study at the University. It can only be applied to tuition fees and cannot be used to cover any other programme-related expenses (e.g. residential costs, materials or membership fees).

For further information visit **www.rgu.ac.uk/discount**

SCHOLARSHIPS

RGU SPORT scholarship

There are a number of sports scholarships offered to promising sports men and women to support them in developing their talents and succeeding in their chosen sporting field whilst undertaking academic study. Scholarships are offered on an annual basis to athletes who are at, or close to, national standard in their given sport. Financial assistance is awarded to support travel, training, equipment and competition expenses accrued during the academic year. **www.rgu.ac.uk/scholarships**

Scotland's Saltire scholarships

The British Council and Scottish Government run Scotland's Saltire Scholarships scheme. There are a total of 200 awards made under this scheme open to students from Canada, China, India and USA who are pursuing a taught one year Masters degree at a Scottish university. Those who are successful will be offered a scholarship totalling £2,000. Students who hold a conditional or an unconditional offer from a Scottish institution can apply.

Find out about other sources of funding for international students from the British Council's database **www.britishcouncil.org**

COURSE-SPECIFIC SCHOLARSHIPS AND FUNDING

We have only listed a small portion of scholarships and funding options on this page.

We have a much wider list of course-specific scholarships and funding on our website. These include Common Data Access, CNR International and Opito scholarships. As this information is regularly reviewed and updated, we recommend you check individual course pages on our site to access and check this information.

The scholarships that are available will depend on your course. To access the full list available, visit the course of interest on our website.

Contact us about your postgraduate fee payment options and funding opportunities.

Student Finance
+44 (0)1224 262664
studentfinance@rgu.ac.uk
Further information on other sources of funding is available at: **www.postgraduate-funding.com/gateway**

Non-payment of fees
The University's current sanction for non-payment of tuition fees is to withhold the conferment of awards to students who are in debt to the University.

Supporting you during your studies

STUDENT CENTRAL

At 'Student Central' you will find:

- Student Help Point (Information and Advice Centre)
- Careers and Employability Centre
- Chaplaincy
- Child Care (Treehouse Nursery)
- Counselling Support and Wellbeing
- Disability and Dyslexia Advice and Support
- International Student Advice, Visa and Immigration Centre
- Scholarships
- Study Skills and Access Unit

Student Central is located on level 3, Health and Social Care building, Garthdee.
www.rgu.ac.uk/studentservices

STUDENT HELP POINT

For current students, this is your 'one-stop shop' for all non-academic queries, support and advice.

At Student Help Point you can pay tuition fees, request student status letters, browse info on careers and lots more.

Find us at Student Central, Garthdee
studenthelppoint@rgu.ac.uk
Phone: +44 (0)1224 262182 or 263660

INTERNATIONAL STUDENT ADVICE, VISA AND IMMIGRATION CENTRE

The International Student Advice, Visa and Immigration Centre provides international students with a wide range of support and advice which includes:

- Offering advice on extending/renewing your student visa (in line with the recommendations of the Office of the Immigration Services Commission)

- Issuing your Confirmation of Acceptance for Studies (CAS) (This service is for current students only)
- Running workshops to advise you on how to complete your Tier 4 Student visa extension form
- Advising you on working during your studies (please note that we do not issue letters to students to give to employers)
- Organising a 'Meet and Greet' service for new international/EU students arriving at

CAREERS AND EMPLOYABILITY CENTRE

Students can access support to help them identify and assess the career options that are right for them; securing part-time work or summer jobs; work experience opportunities and how to progress themselves to effectively source and apply for their first graduate-level job.
www.rgu.ac.uk/careers

DISABILITY AND DYSLEXIA CENTRE

We support individuals with physical and sensory impairments, health conditions, dyslexia or other specific learning differences, and those with short or long-term support needs.

The service employs a dedicated Enabling Technologist who provides advice and support in the use of assistive and enabling technology, and an Educational Psychologist.
Find us at Student Central, Garthdee.
+44 (0)1224 262103
disability@rgu.ac.uk

CHILDCARE

The Treehouse Early Care and Education Centre at Robert Gordon University is situated on our Garthdee campus.

This outstanding purpose-built facility provides the highest quality care and education for babies and children of three months to five years of age.
www.rgu.ac.uk/nurseryfacilities
+44 (0)1224 861840

CHAPLAINCY

The Chaplaincy service is for the benefit of the whole University community.
www.rgu.ac.uk/chaplaincy
+44 (0)1224 591527

COUNSELLING AND WELLBEING

Provides support and advice on a wide range of pastoral and emotional issues.
www.rgu.ac.uk/counselling

STUDY SKILLS AND ACCESS UNIT

The Study Skills and Access Unit offers you confidential advice, support and guidance with a range of academic study skills, including:

- Academic Writing and Critical Thinking
- Exam Preparation and Revision
- Maths, Statistics and Numeracy Skills
- English Language (for International Students)
- Study Skills (time management, presentation skills etc)
- Basic IT Skills

We tailor our service to suit you, and you can arrange appointments on an individual or small group basis, and appointments can be face-to-face, via email or telephone. Contact us at studyskills@rgu.ac.uk or visit
www.rgu.ac.uk/studysupport for more information.

www.rgu.ac.uk/studentservices

Looking for a place to stay?

OUR ACCOMMODATION

Robert Gordon University has various purpose-built accommodation developments situated in the city and at the Garthdee campus. The flats are well equipped, and some of the accommodation has en-suite bathrooms, whilst the remainder has shared washing and toilet facilities.

APPLICATIONS

Application for University accommodation is made online at **www.rgu.ac.uk/roomonline**

To apply you must live outwith the Aberdeen area and have accepted an unconditional or conditional offer or have an insurance offer.

MORE INFORMATION

For the most up-to-date information about accommodation, go to our website or contact us direct. We would be delighted to help and look forward to welcoming you to Aberdeen.

www.rgu.ac.uk/accommodation
Call us on +44 (0)1224 262130
Email accommodation@rgu.ac.uk

UNIVERSITY MAIN SWITCHBOARD
Telephone +44 (0) 1224 262000

LIST OF POSTGRADUATE COURSES
We recommend visiting our website to find the most up-to-date information on courses.
www.rgu.ac.uk/explorepg

POSTGRADUATE OPEN EVENINGS
To register and book a place at one of our postgraduate events, go to:
www.rgu.ac.uk/openevening

STUDENT FINANCE
For enquiries about fees, finance and scholarships.
+44 (0)1224 262664
Email studentfinance@rgu.ac.uk
www.rgu.ac.uk/pgfees

APPLY ONLINE
To apply for a postgraduate course, go to:
www.rgu.ac.uk/applyonline

Postgraduate admissions team
For enquiries about your postgraduate application and entry requirements.
+44 (0)1224 262209
PgOffice@rgu.ac.uk

CONTACT US
+44 (0)1224 262209
PgOffice@rgu.ac.uk
www.rgu.ac.uk/explorepg

Postgraduate subjects

- Accounting and Finance
- Communication, Marketing and Media
- Computing
- Engineering
- Health, Nursing and Midwifery

- Health and Sports Sciences
- Information Management
- Law
- Management
- Pharmacy and Life Sciences
- Social Work and Social Science

Contact us T: +44 (0)1224 262132   E: better@rgu.ac.uk   www.rgu.ac.uk/explorepg

See our beautiful campus
Instagram
**www.rgu.ac.uk/
instagram**

Connect with your peers
Facebook
/robertgordonuniversity

Check out our pin boards
Pinterest
www.rgu.ac.uk/pinterest

Network and connect
LinkedIn
www.rgu.ac.uk/linkedin

Read our student blog
WordPress
www.rgustudentblog.com

Join the conversation
Twitter
/robertgordonuni

Watch videos
Youtube
**Youtube/
robertgordonuni**

Get the latest news
RGU website
www.rgu.ac.uk/news