

ENGINEERING

POSTGRADUATE GUIDE

COMMUNICATIONS ENGINEER ELECTRICAL ENGINEER COMPLETIONS ENGINEER
OFFSHORE RIG SUPERINTENDENT INSTRUMENTATION ENGINEER
ELECTRONICS TECHNICIAN SYSTEMS ENGINEER
RIG OPERATIONS ENGINEER PROCESS ENGINEER
PROJECT ENGINEER RESERVOIR GEOLOGIST
SUBSEA ENGINEER PRODUCTION CHEMIST
WELL ENGINEER NETWORK ENGINEER
MECHANICAL DESIGN ENGINEER
ASSET INTEGRITY MANAGER
APPLICATIONS ENGINEER
PETROLEUM ENGINEER
DRILLING ENGINEER
A CLEAR FUTURE



**ROBERT GORDON
UNIVERSITY • ABERDEEN**

**WHY CHOOSE RGU? VIBRANT MODERN CAMPUS ACADEMICALLY RIGOROUS
STRONG INTERNATIONAL REPUTATION SUPPORTIVE ENVIRONMENT
BOOSTS YOUR CAREER OPTIONS PLACEMENT OPPORTUNITIES
REAL WORLD FOCUS FLEXIBLE STUDY OPTIONS
SPECIALIST WORLD-CLASS RESEARCH
PROFESSIONAL ACCREDITATION
GAIN TRANSFERABLE SKILLS
STRONG LINKS TO INDUSTRY
IMPROVE EMPLOYABILITY
CAREER PROGRESSION
WIDENS YOUR HORIZONS
COMPETITIVE EDGE
A CLEAR FUTURE**

SCOTTISH UNIVERSITY OF THE YEAR*

**A FLOURISHING REPUTATION
FOR INNOVATIVE RESEARCH,
STUDENT-CENTRIC APPROACH,
STRONG INDUSTRY LINKS AND
AN EXCEPTIONAL GRADUATE
EMPLOYMENT RECORD SETS
IT APART FROM ITS PEERS.
ITS GRADUATES GAIN THE
ADVANTAGE IN THEIR CAREER.**

***SUNDAY TIMES UNIVERSITY GUIDE 2011**

FULL COURSE LISTING

ABERDEEN BUSINESS SCHOOL

ACCOUNTING AND FINANCE

Accounting and Finance
Financial Management
Oil and Gas Accounting

COMMUNICATION, MARKETING AND MEDIA

Corporate Communication and Public Affairs
Fashion Management
International Marketing Management
Journalism

INFORMATION MANAGEMENT

Graduate Certificate Information Studies
Information and Library Studies
Information Management
MBA Information Management

LAW

Construction Law and Arbitration
Diploma in Legal Practice
Employment Law and Practice
International Commercial Law
International Trade
Oil and Gas Law

MANAGEMENT

Graduate Certificate Management Studies
Graduate Certificate Project Management
Energy Management
Fashion Management
Financial Management
Health, Safety and Risk Management
Human Resource Management
International Business
International Marketing Management
International Tourism and Hospitality Management
International Trade Management
Master of Business Administration
Master of Public Administration
MBA Information Management
MBA Oil and Gas Management
Project Management
Purchasing and Supply Chain Management
Quality Management

FACULTY OF DESIGN & TECHNOLOGY

ARCHITECTURE AND BUILT ENVIRONMENT

Graduate Diploma in Surveying
Advanced Architectural Studies
Architectural Studies
Construction Project Management
Design Management
MArch part2
Property Development

COMPUTING

Information Engineering
Information Engineering with Network Management
IT Management
Software Technology
Software Technology with Network Management

ENGINEERING

Asset Integrity Management
Communications and Computer Network Engineering
Drilling and Well Engineering
Offshore Renewables
Oil and Gas Engineering
Petroleum Production Engineering
Subsea Engineering

GRAY'S SCHOOL OF ART

Fine Art
Design

FACULTY OF HEALTH & SOCIAL CARE

APPLIED SOCIAL STUDIES

Corporate Social Responsibility and Energy
Social Work

HEALTH SCIENCES

Graduate Certificate Magnetic Resonance Imaging
Graduate Certificate Computed Tomography
Clinical Biomechanics
Health Improvement and Health Promotion
Physiotherapy (pre-registration)
Diagnostic Radiography (pre-registration)
Radiographic Studies (DipHE)
Sports Biomechanics

NURSING AND MIDWIFERY

Advanced Clinical Practice
Clinical Practice
Community Health
Nursing
Occupational Health Practice

PHARMACY AND LIFE SCIENCES

Clinical Pharmacy Practice
Instrumental Analytical Sciences DNA Analysis, Proteomics and Metabolomics
Instrumental Analytical Sciences Drug Analysis and Toxicology
Instrumental Analytical Sciences Environmental Analysis
Advanced Pharmacy Practice

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BASED IN THE HEART OF ABERDEEN, THE ENERGY CAPITAL OF EUROPE, WE ARE IDEALLY LOCATED FOR YOUR POSTGRADUATE ENGINEERING STUDIES. YOU WILL LEARN FROM A TEAM OF EXPERIENCED STAFF WHO ARE ACTIVELY INVOLVED IN RESEARCH, CONSULTANCY AND THE PROVISION OF BESPOKE EDUCATION AND TRAINING TO INDUSTRY.

WELCOME

TO THE SCHOOL OF ENGINEERING

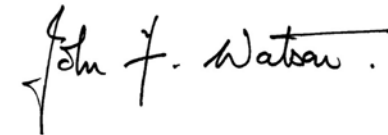
At the School of Engineering we work closely with local, national and international companies to ensure that we provide you with a professional educational experience enabling you to gain the necessary skills and capabilities to meet the demands of employers.

Based in the heart of Aberdeen, the energy capital of Europe, we are ideally located for your postgraduate engineering studies.

You will learn from a team of experienced staff who are actively involved in research, consultancy and the provision of bespoke education and training to industry.

We appreciate that the decision to study for a postgraduate qualification is a major one. Whether you are a recent graduate seeking to specialise, or an experienced professional wishing to update your knowledge and skills, you can be certain that by studying with us you are making a career-enhancing decision.

We look forward to welcoming you to our School.



Professor John Watson
Dean, Faculty of Design and Technology



WHY STUDY A POSTGRADUATE COURSE?

There has never been a better time to embark on a postgraduate course. Whether you have recently graduated, or are looking to gain professional accreditation, retrain or develop your CPD, developing your knowledge and expertise within a specific field will increase your employability within the current competitive jobs market.

WHY STUDY AT ROBERT GORDON UNIVERSITY?

A clear future

We take the needs of students and industry and provide a clear and reputable link between study and career development.

Engaging with employers

We work closely with employers at every stage to ensure our courses prepare you for the professional world; from course development and accreditation to guest speakers and placements.

A commitment to students

Our student-centric approach and reputation means that students invest in us time and again to assist them on their way to their chosen career.

Track record

Awarded Scottish University of the Year
in *The Sunday Times University Guide 2011*

Rated best modern university in the UK
in *The Guardian University Guide 2011*

Rated top modern university in the UK
in *The Times Good University Guide 2011*

An inspirational environment

In the past decade, the University has invested more than £100 million to improve its facilities, and intends to make the Garthdee site 'the best riverside campus in Europe'. *The Guardian* (12 May 2009)

Research

Our research success is just as impressive, with the Scottish Funding Council announcing that the University's research grant funding has been increased by 99% to £2.7m for 2009/2010 – the highest of any Scottish university.

WHAT TO CONSIDER

There are many reasons why you may be attracted to postgraduate study and there are a number of things you should consider whilst investigating your options. These reasons will vary from person to person, however it is important to have a clear goal in mind before committing yourself to any course.

POSTGRADUATE OPEN EVENINGS

These events give you the opportunity to speak directly with Course Leaders, see the campus and our facilities and ask any questions you may have regarding finance or your application.

For more information on forthcoming Open Evenings visit www.rgu.ac.uk/openevening

Economic effects

Pressure on the jobs market means graduates now face the difficult process of job hunting within a very competitive environment. This has created the perfect opportunity to undertake further training and experience through a postgraduate degree, developing your knowledge and abilities within a given industry.

Building your brand

Developing your skills set and knowledge demonstrates a high level of dedication to prospective employers. Recruiters are also keen to see transferable skills gained through study and placements as these allow you to integrate well and hit the ground running.

Continuing Professional Development

Lifelong learning is now considered to be an integral part of your own personal development, allowing you to keep abreast of innovations within your own profession and giving you the flexibility to change career paths when required.

Retooling for a new career

Planning a change of direction into a new career can be an exciting but challenging process. Some career changes will be relatively easy to achieve and others may require acquiring new skills and knowledge.

Placements

Employers value work experience. It shows that you have industry experience to complement your degree and demonstrates an added commitment to the sector. They also give you the opportunity to sample prospective roles whilst building up business contacts to use in your future career.

PRESSURE ON THE JOBS MARKET MEANS GRADUATES NOW FACE THE DIFFICULT PROCESS OF JOB HUNTING WITHIN A VERY COMPETITIVE ENVIRONMENT. THIS HAS CREATED THE PERFECT OPPORTUNITY TO UNDERTAKE FURTHER TRAINING AND EXPERIENCE THROUGH A POSTGRADUATE DEGREE.

SCHOOL OF ENGINEERING

Our staff boast a wide range of expertise, and this is reflected in the portfolio of innovative and flexible degree programmes which are offered within the School.

ENERGY CAPITAL OF EUROPE

We work directly with industry to understand their needs and developments which in turn shapes the courses we deliver, providing you with well-structured, specialised, accredited programmes that will enable you to progress within the industry.

Our location in the European energy capital gives us a significant advantage as we are able to engage at a high level with national oil and service companies such as Shell, Chevron and Schlumberger. We also work closely with national professional bodies such as IMechE, IET and the Energy Institute.

PROFESSIONALLY ACCREDITED COURSES

Our accreditations demonstrate the quality and relevance of our courses and in most cases form the basis for your career progression to Chartered (CEng) status, the highest professional engineering qualification. Please see individual course pages for full information.

The School is also a Cisco Regional Networking Academy, which allows us to deliver training towards the Cisco CCNA qualification.

Institution of
**MECHANICAL
ENGINEERS**

IET Accredited
Programme®

energy
INSTITUTE

STRONG INDUSTRY LINKS

Our strong relationships with industry enable us to always stay 'one step ahead' and confidently deliver engineering courses that meet the demands of employers.

These relationships are fostered through research projects and knowledge transfer, enabling businesses to provide input into course development and delivery.

We are entrusted by major oil companies around the world to participate in the development of their workforce. As a result, many senior engineers in the industry are either our alumni or are current postgraduate students.

Our track record is second to none due to our courses being relevant, vocational and led by industry practitioners, making us leading providers within this area.

RESEARCH EXPERTISE

Our excellent reputation in research allows us to fully participate in collaborative projects such as the Northern Research Partnership (NRP) and the National Subsea Research Institute (NSRI). Research activity in the School is broadly categorised into the following areas:

The Energy Group

Working on issues relating to the oil industry, hydrogen production and more fundamental aspects, such as membrane technology, fluid mechanics and condition monitoring.

The Environmental Technology Group

Providing expertise in renewable energy, integration of renewable energy-based power plants into electrical systems, advanced water and air treatment technology, environmental sensing and environmental catalysis.

The Electronic Systems Group

Focuses on research in the area of the knowledge economy; for example, in image processing and artificial intelligence.

The Materials and Bioengineering Group

Specialises in absorption, porosity, surface science and biomaterial.

SUPPORTING YOUR LEARNING

Facilities

As a Cisco Regional Academy, the School has a Cisco Laboratory containing PCs, Cisco routers and Cisco switches. This includes access to a NETLAB facility, an internet-accessible bank of Cisco networking equipment on which students can practise their network implementation skills.

The Georgina Scott Sutherland Library is a striking building designed by renowned architect Lord Norman Foster. Home to several University collections, the Library is also frequently used as a venue for exhibitions.

Facilities include:

- Vast range of books and journals plus fast access to databases, e-books and other online resources
- Quiet study areas
- Meeting rooms for group work
- IT and printing facilities
- Wireless internet access

External Speakers

Through our close industry relationships we regularly invite practitioners to be involved in the delivery of key modules within each course. You will enjoy a close relationship with practitioners, as well as highly respected academics who have previously worked within the industry.

Flexible Learning

We deliver both on-campus and Online Distance Learning (ODL) courses, providing you with flexible study options to fit in with work and other commitments.

Our on-campus programmes are delivered in our city centre campus, allowing you access to a number of University facilities. Those choosing this study option will also have the opportunity to participate in organised field trips (see page 20 for further details).

Our ODL programmes are delivered via our virtual online learning environment CampusMoodle, providing a flexible, innovative and high-quality teaching and learning experience. Our ODL courses are media rich with engaging and interactive content, podcasts and video, and are often enhanced by authentic industry applications software, deliverable via thin-client technology.

STAFF

PROFESSOR JOHN STEEL

Head of School

Professor Steel is a Chartered Engineer and a Fellow of the Energy Institute (FEI). He has a research background in monitoring and diagnostics using novel applications of acoustic emission. His work has involved extensive collaboration with industry from across Europe for applications to reciprocating machines and, in particular, monitoring and management of power generating engines.

DR RICHARD BUTLER

Director of Postgraduate Teaching

Richard holds an Electronic Engineering degree, a PhD degree and has a background in the telecommunications industry, working in the design and development of optical fibre transmission systems. He is a Chartered Engineer, a Member of the Institution of Engineering and Technology (MIET) and a Senior Member of the Institute of Electrical and Electronics Engineers (SMIEEE).

Richard's research interests include the modelling and performance analysis of digital communications systems and networks, and the development of performance monitoring strategies for telecommunications systems and networks.

DR ALLAN ADAM

Course Leader, Subsea Engineering

Allan has a degree and PhD in Mechanical Engineering. He is registered as a Chartered Engineer and is a Fellow of the Institution of Mechanical Engineers (IMechE). He is also a member of the Society of Petroleum Engineers (SPE).

His work history includes research and development engineering as a dynamics and control specialist. He has been involved with numerous product development and test programmes including: full-scale testing of drilling rig heave compensator; highly accelerated life testing of downhole gauges; and strength assessment of s-lay concrete-coated pipelines used in the offshore industry.

HEATHER GORDON

Course Leaders, Asset Integrity Management

Prior to her appointment as Course Leader, Heather undertook research roles in Proof of Concept Projects, and retains interest in Maintenance Optimisation. Heather has a degree in Electronic and Electrical Engineering and has professional experience in a variety of areas including quality assurance, health and safety and production management.

DR JESSE ANDRAWUS

Course Leaders, Offshore Renewables

Jesse holds a PhD in Asset Integrity Management and has extensive experience in generating solutions in the area of reliability, availability and maintainability optimisation.

JOHN BISSET

Course Leader, Drilling and Well Engineering

John holds an MSc in Offshore Engineering and recently worked as engineering team lead and mentoring position with a major service provider.

His varied industry background includes mining exploration, mud logging, pore pressure prediction, mud engineering, drilling engineering, drilling equipment design, engineering analysis and training. His consultant well engineering work included drilling equipment design, involvement in a major drilling re-design project and well engineering design and operations tasks.

GEORGE KIDD**Course Leader, Oil and Gas Engineering**

George has a degree in Mechanical Engineering and is currently the School's academic representative on the local Aberdeen Maritime Branch (IMarEST, RINA & IESS). He has worked within the industry for over 40 years starting out as a marine engineer and fulfilled a variety of roles during the design, construction, plant installation and commissioning of vessels for service in the merchant navy and the oil and gas industry.

George's research interests include combustion, condition monitoring, IC engines, and alternative/renewable energy systems.

CHRIS MACLEOD**Course Leader, Communications & Computer Network Engineering**

Chris has a BSc in Physics and Electronics; an MSc in Information Systems and a PhD in Artificial Intelligence. He is a member of the Institute of Physics and a Chartered Physicist. Before joining RGU in 1995 he was a Research Scientist with Hughes Aircraft Company for six years, working mostly on communications systems in the USA. He has extensive experience in analogue electronics and specialises in radio systems design.

OUR STAFF REGULARLY INVITE PRACTITIONERS TO BE INVOLVED IN THE DELIVERY OF KEY MODULES WITHIN EACH COURSE. YOU WILL ENJOY A CLOSE RELATIONSHIP WITH PRACTITIONERS, AS WELL AS HIGHLY RESPECTED ACADEMICS WHO HAVE PREVIOUSLY WORKED WITHIN THE INDUSTRY.

YOUR CAREER OPTIONS

With demand for oil and gas increasing, and greater care being taken of our natural resources, the oil industry faces a challenging and exciting future which is going to test the ingenuity and expertise of those working within the industry and provide exciting opportunities for career development.

PETROLEUM ENGINEER

A petroleum engineer is involved in nearly all stages of oil and gas field evaluation, development and production. The goal of a petroleum engineer is to maximise hydrocarbon recovery at a minimum cost while maintaining a strong emphasis on reducing all associated environmental problems. Petroleum engineers are divided into several groups: petroleum geologists find hydrocarbons by analysing subsurface structures with geological and geophysical methods; reservoir engineers work to optimise production of oil and gas via proper well placement, production levels, and enhanced oil recovery techniques; production engineers manage the interface between the reservoir and the well through such tasks as (but not limited to) perforations, sand control, artificial lift, downhole flow control and downhole monitoring equipment; and drilling engineers manage the technical aspects of drilling both production and injection wells.

They all work in multidisciplinary teams alongside other engineers, scientists, drilling teams and contractors.

NETWORK ENGINEER

Network engineers are responsible for installing, maintaining and supporting computer communication networks within an organisation or between organisations. Their goal is to ensure the smooth operation of communication networks in order to provide maximum performance and availability for their users, such as staff, clients, customers and suppliers. Network engineers may work internally as part of an organisation's IT support team, or externally as part of an IT networking consultancy firm working with a number of clients. This role may also be referred to as network support, support engineer, IT support engineer, helpdesk support, network administrator, Novell support engineer, first-line support, second-line support, security engineer and network architect.

DRILLING ENGINEER

A drilling engineer develops, plans, costs, schedules and supervises the operations necessary in the process of drilling oil and gas wells. They are involved from initial well design to testing, completion and abandonment. Engineers are employed on land, on offshore platforms, or on mobile drilling units either by the operating oil company, a specialist drilling contractor or a service company. The role can involve administering drilling and service contracts, engineering design, the planning of wells and supervising the drilling crew on site. Drilling engineers work with other professionals, such as geologists and geoscientists, to monitor drilling progress, oversee safety management and ensure the protection of the environment.

SUBSEA ENGINEER

Subsea engineers are involved in any structural engineering taking place beneath the surface of the sea. They design, build and install mechanical systems used under the ocean, such as underwater pipelines and pumps, transportation equipment, subsea wellheads and offshore drilling rigs. They need to have a good working knowledge of all types of underwater equipment and vehicles. They may also be involved in underwater data collection, which entails using imaging technology or remotely operated vehicles to gather information.

Subsea engineers use both traditional and high-tech tools, such as computer-aided design (CAD) systems, to create realistic geometric models of drills and rigs, which can simulate and analyse the effects and potential problems of designs (e.g. machine malfunction and slowdown). They may also work with oceanographers and other scientists to determine locations for drilling as well as teams of other engineers and professionals to design an interface between the subsea structures and the well.

RESERVOIR ENGINEER

Reservoir engineers analyse the production potential of a petroleum reservoir. They study the behaviour and characteristics of a petroleum reservoir to determine the drilling and extraction methods that should be used to optimise oil or gas recovery. They gather data from various sources to produce a development plan, using computer models to simulate production conditions. This enables them to identify risks and forecast the likely outcome of events and possible interventions, to maximise reservoir yields and performance. Decisions on the numbers and locations of wells depend on these models, as do development programmes, such as commissioning additional wells or recommending the employment of enhanced recovery technologies (e.g. water injection to simulate flow). Reservoir engineers monitor and update the model as necessary during the lifecycle of the reservoir.

COMMUNICATIONS ENGINEER

Communications engineers work within a number of sectors, including internet and computing technologies, networking and telecommunications and radio, often applying both their technical expertise and their management skills. Managerial responsibilities involve planning and managing projects, ensuring that they are delivered on time, within budget and to the agreed standards of quality, while the technical role includes using specialist knowledge to design and deliver solutions, as well as providing technical guidance to others within the employing organisation.

WANT TO KNOW MORE?

This is just a small selection of career opportunities available. Find out more by reading our course details from pages 20 through to 40.

ASSET INTEGRITY MANAGER

An asset integrity manager looks at the ability of an asset to perform its required function effectively and efficiently whilst protecting health, safety and the environment and the means of ensuring that the people, systems, processes and resources that deliver integrity are in place, in use and will perform when required over the whole lifecycle of the asset. They are responsible for addressing the quality at every stage of the asset lifecycle, from the design of new facilities to maintenance management to decommissioning. This includes carrying out inspections and auditing to ensure the overall quality of processes designed to make an integrity management system effective. The AIMS (Asset Integrity Management System) should also endeavour to maintain the asset in a fit-for-service condition while extending its remaining life in the most reliable, safe, and cost-effective manner.

PROJECT ENGINEER

The role of the project engineer can often be described as that of a liaison between the project manager and the technical disciplines involved in a project. The project engineer is also often the primary technical point of contact for the customer. Typically responsibilities include schedule preparation and resource forecasting for engineering and other technical activities relating to the project. They assure the accuracy of financial forecasts, which tie in to project schedules and ensure projects are completed according to project plans. Project engineers manage project team resources and training, and develop extensive project management experience and expertise. When project teams are structured so that multiple specialty disciplines report to the project engineer, then two important responsibilities of this role are inter-discipline co-ordination and overall quality control of the work.

YOUR CAREERS CENTRE

We are on hand to help you reach informed decisions regarding your future career, to assist you in achieving your goals and to provide a framework enabling you to cope with subsequent careers decisions.

CV AND APPLICATION FORMS SUPPORT

We support you in understanding how to sell your skills and experiences to employers both in the UK and beyond, ensuring that the information is tailored to the position and sector you are applying to.

INTERVIEW PREPARATION

Within the careers centre we support you in understanding what is expected of you, and the types of questions you may be asked and how to respond professionally. We also offer mock interview sessions.

WHERE ARE THE OPPORTUNITIES

The Graduate Job market can be very daunting, knowing where to look for opportunities and understanding closing dates. We support you by identifying resources (both online and paper, UK and globally) that you can access as well as advertising opportunities through JOBSHOP.

PART-TIME WORK

We understand the need to work part time in order to help finance your studies, enhance your work experience and document your skills. We arrange a part-time Jobs Fair in the first week of teaching in September and provide you access to our online part-time Jobs Portal.

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. These fairs provide you with the opportunity to speak to graduate recruiters and understand more about their opportunities and the recruitment process before applying for vacancies.

EMPLOYER ON-CAMPUS PRESENTATIONS

Employers are keen to speak to our students directly, 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 that company and a chance for you to ask questions.

ON-COURSE DELIVERY

Each Careers Consultant is assigned a caseload, and they liaise closely with Course Leaders to tailor on-course careers input to ensure that you are given the most up-to-date careers information relevant to your degree area.

ONLINE RESOURCES

Our website, as well as course specific CampusMoodle pages, has been created to convey career specific information to you. We have also recently launched our online employability module 'Preparing to Succeed ...'

WEEKLY WORKSHOPS

In conjunction with key events, we deliver tailored presentations and workshops on areas such as securing part time work, how to complete application forms and the importance of networking to support you in your search for graduate employment. These workshops are open to all students.

CAMPUSMOODLE

You can also access our services through the website or CampusMoodle. You can also submit questions by email, or request a phone or Skype interview.

For more information visit www.rgu.ac.uk/careers



PROFESSIONAL DEVELOPMENT

For individuals looking for Continuing Professional Development, we offer a diverse range of accredited postgraduate courses and study options to suit your needs.

If you are an employer interested in training and development for your workforce our Business Services team will work with you to identify your organisation's requirements.

CONTINUING PROFESSIONAL DEVELOPMENT (CPD)

It is important to manage your own career and personal development is the key in achieving this.

What is CPD about?

Professional development is now a fundamental part of our working lives. It allows you to:

- Formalise your experience
- Keep up to date professionally
- Develop your existing skills and knowledge
- Make a successful career move
- Gain accreditation from a professional body

CPD at Robert Gordon University

Our postgraduate courses are designed to develop your skills and knowledge, in line with industry standards, to help you achieve your career goals. As a result the University has always been at the forefront in responding to new training requirements.

We also understand the commitments of those looking for CPD and so offer a variety of study options (full-time, part-time and online distance learning) which help to meet the needs of those already in employment.

Working closely with organisations, both within the private and public sector, and across a variety of industries, ensures our postgraduate courses are developed in line with the highest industry standards and requirements.

The benefits of personal development

Managing your career is not only personally rewarding but vital in an increasingly competitive jobs market and within fast changing professions.

Personal development ensures you stay interested and motivated in your role and helps you identify and take advantage of any opportunities that may come your way.

Taking a structured approach to your professional development will enable you to manage your career more effectively, deciding on the goals you want to reach and taking control of the route you take.

BUSINESS SERVICES

We work with UK and overseas organisations and governments to provide accredited and customised learning and development solutions.

What we can do for you

We spend time with clients to understand their specific needs and objectives to identify training and competency gaps:

- Industry-relevant, award-bearing educational programmes, from graduate certificates to Masters programmes and MBA's
- Training customised to meet specific business requirements; from short courses to in-depth programmes
- Consultancy interventions from Training Needs Analyses and Innovation Audits to Contract Research, Business Simulation exercises and maintenance of a productive and healthy workforce and environment.
- Competency and Capability Assurance: partnering with you to bridge competency and skills gaps

With access to a wide range of both University and industry experts, we can provide programmes either directly from our existing courses or developed from our expertise within the following specialist areas:

- Management
- Law
- Engineering
- Accounting and Finance
- Computing
- Health

To ensure our programmes are fit for purpose, we have developed courses in conjunction with industry through specialist expertise within the Engineering School's Energy Centre, Aberdeen Business School and the Faculty of Health and social Care to meet the

recruitment requirements of these markets. Courses relevant to the Oil and Gas industry include :

- Energy Management
- MBA and MBA Oil & Gas Management (AMBA accredited)
- Oil and Gas Accounting
- Oil and Gas Law (CIArb accredited)
- Oil and Gas Engineering (Energy Institute accredited)
- Drilling and Well Engineering (Energy Institute accredited)
- Subsea Engineering (Energy Institute accredited)
- Petroleum Production Engineering (Energy Institute accredited)
- Asset Integrity Management (Energy Institute accredited)
- Purchasing and Supply Chain Management (CIPS accredited)
- Health, Safety and Risk Management
- Corporate Social Responsibility with Energy
- Occupational Health Practice
- Health Improvement and Health Promotion

FOR THE PAST SEVEN YEARS WE HAVE HAD A PRODUCTIVE, CONSISTENTLY SOLID BUSINESS RELATIONSHIP WITH UNIVATION AND ROBERT GORDON UNIVERSITY WHEREBY OVER 1,000 CHEVRON PARTICIPANTS HAVE BEEN SUCCESSFULLY TRAINED THROUGH RGU COURSES. WE BELIEVE THAT CHEVRON PARTICIPATION IN THESE COURSES HAS ENHANCED OUR COMPETENCIES IN THE APPLICABLE SUPPLY CHAIN MANAGEMENT AREAS.

TOM CRIMI, LEARNING AND DEVELOPMENT MANAGER, CHEVRON GLOBAL UPSTREAM & GAS

OUR TRACK RECORD

Scottish University of the Year

The Sunday Times University Guide 2011

Best Modern UK University

The Times, Good University Guide 2011

Top Modern University

The Guardian University Guide 2011

Top UK University for graduate employment

Sunday Times University Guide 2011

Industry links

The University's strength lies in working directly with industry to understand their needs and objectives, which in turn shapes the courses we deliver. Based in the European capital for Oil & Gas technology and expertise gives us a significant advantage and ability to engage at high level with international and national oil and service companies such as Shell, Chevron, Sonatrach in Algeria, PdVSA in Venezuela and PetroChina. We also work closely with national and local industry bodies such as UKTI, IMechE, Subsea UK and the Energy Institute.

Flexibility

We can deliver training in Aberdeen, overseas, via Online Distance Learning (ODL) or through blended learning (ODL supported by in-country teaching) allowing you flexibility where operational demands and geographic spread can restrict traditional learning routes.

Customisation

Our flexibility and ability to customise programmes are key factors for us in providing development programmes that will help your organisation to maximise the potential of your workforce.

HOW TO CONTACT US

business@rgu.ac.uk

T: 01224 263320

UK

Andy MacDonald
Business Development Manager

a.k.macdonald@rgu.ac.uk

T: 01224 213171

International

Greg Sloan

Business Development Manager

g.sloan@rgu.ac.uk

T: 01224 263332

AS AN ALUMNUS YOU ENJOY LIFELONG CONNECTIONS WITH OTHER ALUMNI AND THE UNIVERSITY. THE ALUMNI MAGAZINE AND RECENT INITIATIVES LIKE BUSINESS NETWORKING ON 'LINKEDIN' AND EMAIL FOR LIFE, HAVE DRAWN OUR COMMUNITY CLOSER. IT'S GREAT TO SEE SUCH INNOVATIVE INITIATIVES DEVELOPED BY THE ALUMNI ASSOCIATION, OPENING UP OPPORTUNITIES TO GET MORE INVOLVED.

**SACHIN RAJSHEKHAR SAMSON,
REGIONAL MANAGER AT ZENITH SOFTWARE, MELBOURNE**

AFTER YOU LEAVE

University life doesn't end after graduation. Our Alumni Association supports our worldwide community of over 65,000 graduates. We keep our graduates in touch with the University and each other, with a range of exclusive benefits and services.

BENEFITS AND SERVICES FOR ALUMNI

Connect

Alumni magazine and bi-monthly electronic bulletin keeping you up to date.

Careers support

Giving you access to a range of services available from the Robert Gordon University Careers Centre.

Email for life

You will never need to change your email address again. All alumni are eligible to receive a free University email account for life.

Find a friend service

Helping you keep in touch with former classmates and link up with other graduates living in your area.

Alumni loyalty discount

Providing 10% off postgraduate course fees to graduates of Robert Gordon University with an undergraduate degree.

Lifelong learning

Providing information and advice on a wide range of postgraduate and CPD courses.

Events and reunions

Including masterclasses, exhibitions, open days and alumni receptions, both at home and overseas.

As well as providing an opportunity to catch up with former classmates, alumni events are the perfect chance to expand your social and business networks, opening up new opportunities.

Alumni Privilege Card

Providing you with a host of discounts and special offers.

Alumni groups

The University has a number of alumni groups and virtual communities around the globe.

Volunteering

Enhance our students' learning experience and boost your CV by participating in our alumni volunteering programme.

There are many ways you can get involved including: providing a career profile or testimonial; using your industry expertise to talk to students and support student projects; offering student placements; joining our international alumni ambassador scheme; assisting with student recruitment and establishing an alumni group.

The Alumni Fund

You can help our students to learn, create and innovate by donating to the Alumni Fund.

For more information on all the services on offer, please visit www.rgu.ac.uk/alumni

ABOUT OUR COURSES

COURSES IN ENGINEERING

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STUDY OPTIONS

FLEXIBLE STUDY OPTIONS TO SUIT YOUR LIFESTYLE

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

This is the traditional and quickest option for completing any of the postgraduate courses offered at the University and requires full attendance for the duration of the programme as stated on each of the course pages. If you are looking to focus solely on your studies, this option will allow you to gain the knowledge and practical skills you require within the shortest amount of time.

Online Distance Learning (ODL)

If you are unable to study on campus we also offer a large number of courses through distance learning, allowing a greater degree of flexibility.

These courses do not differ in content from those taught on campus, the difference lies with the mode of delivery via our online virtual learning environment CampusMoodle (Modular Object-Oriented Dynamic Learning Environment).

You will be taken through an induction on CampusMoodle by Course Leaders at the beginning of each programme, ensuring you understand how to use this effectively, where to find resources, how to contact your Course Leaders and the use of multimedia such as podcasts and virtual classrooms.

The student experience is equally as important for those studying online as for those attending lectures on campus, ODL students have a strong sense of community through the use of discussion forums, chat and group working areas.

QUALIFICATIONS EXPLAINED

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

Postgraduate Certificate (PgCert)

Award granted on completion of four modules appropriate to your chosen course.

Postgraduate Diploma (PgDip)

Award granted on completion of eight modules appropriate to your chosen course.

Masters (MSc)

Award granted on completion of eight modules along with a dissertation.

ON-CAMPUS COURSE OVERVIEW

Our Engineering courses are student-centric and have been specifically designed alongside our industry partners to provide intensive programmes which blend academia and practical application, build confidence and competency through personal experience and focus on your career development.

For those who choose an on-campus full-time course you will benefit from our strong industry links which bring real added value to your experience and learning outcomes.

Induction Week

We organise an induction week which helps prepare you for your course and introduces you to the University, the School and living in Aberdeen.

During the week you will be taken through your induction pack and introduced to members of staff who will be on hand to support you through your time in the School.

For those of you who are new to the Higher Education system within the UK, we will talk you through the course expectations relating to use of language, assessments and lecture formats. CampusMoodle is our online virtual learning environment which you will access throughout your studies to obtain lecture notes, course work and a number of supporting resources.

If you are new to Aberdeen, you will also gain a better understanding of the city, the University around the campuses and your accommodation.

Field Trips

We organise a number of field trips throughout the year that provide our full-time students with the opportunity to see theory put into practice and to network with industry professionals. Previous field trips have included:

DART Training

Drilling and Well engineering students participated in training sessions on KCA Deutag's DART (Drilling and Advanced Rig Training) simulator based in Altens, Aberdeen. Students used the full virtual reality simulation and experienced real drilling situations and challenges, including well-control scenarios.

RigTrain (Weatherford) visit

This visit to the drilling rig facility at the Bridge of Don, Aberdeen, allowed students to see a real full-size rig, with its hoisting, rotating and circulating systems and enabled them to appreciate some of the challenges involved in practical rig operations.

Subsurface Field Trip

A geological field visit designed to introduce petroleum geology for non-geologist students. Those who participated used the spectacular exposures of Permian strata as onshore outcrop analogues for some of the main oil fields or prospects offshore.

Experienced Industry Practitioners

All of our courses are delivered by industry experts who are either still currently working within their specialist field or have moved into academia from industry; allowing us to provide well-rounded courses covering both theory and practical application.

Industry Resources

To support you through your course you will have access to a number of industry-specific resources such as API Standards' OnePetro digital library (including SPE papers) and DNV codes of conduct. These resources enable you to keep abreast of industry developments.

You will also have access to a number of industrial software packages such as PETEX IPM suite, Schlumberger Petrel and Eclipse, Landmark WellCat and EPS FloSystem.



ASSET INTEGRITY MANAGEMENT

MSc

YOU WILL LEARN TO:

- > Develop knowledge of tools and techniques used to resolve problems in an asset management context
- > Analyse and justify the importance of a safety culture and the development of risk assessment skills
- > Analyse and justify the importance and effectiveness of the financial management of assets throughout their lifecycle
- > Identify, justify and apply the systems and techniques that are used to effectively maintain and monitor asset integrity and reliability
- > Use business management expertise to manage assets in line with company mission and values
- > Develop the skill and abilities for the effective management of projects, work and assets
- > Use and develop knowledge of strategies for optimum asset integrity and reliability management

COURSE CONTENT:

- > Problem Solving
- > Maintenance and Inspection for Asset Integrity
- > Introduction to Integrity and Reliability
- > Safety, Health, Environment and Risk Assessment
- > Asset Lifecycle Analysis
- > Corrosion Management
- > Engineering Project Management
- > Integrity and Reliability Management
- > Individual Project Report

PROGRAMME OVERVIEW

This is a unique course relevant for those who aspire to competently manage and co-ordinate physical assets to optimum effect. It marks a significant advance in the delivery of specialised professional development, designed to meet the 'real world' needs of industry.

This course has been developed following guidelines set out by the Energy Institute (EI) providing you with the appropriate knowledge and skills to ensure that the people, systems, processes and resources which deliver the integrity, are in place, in use and fit for purpose over the whole lifecycle of the asset. Furthermore you will learn how to adapt strategies to fulfil dynamic business objectives, enabling long-term financial return.

This will enable you to implement asset management practices within an organisation providing tangible benefits such as lower operating costs, longer asset life, improved asset performance, greater reliability, higher safety standards, enhanced environmental support and better informed investment strategies.

Those studying on the full-time course will be taught via a combination of guest speakers, seminars, workshops and lectures. You will also have the opportunity to participate in our induction week and a number of industry field trips throughout the course.

The Online Distance Learning (ODL) option has been designed to fit in and around your work commitments, allowing you to study from any location. You will be taught via our virtual learning environment CampusMoodle, which allows us to recreate the same challenging interactive format of the on-campus programmes for those studying at a distance. The ODL course uses the same material and content as the full-time on-campus course and is delivered by the same subject specialists.

Individual Project

In order to complete the full MSc you will submit an individual project with an industry focus. This is designed to allow you to demonstrate the skills and knowledge gained through the course along with integrating and implementing research methods, whilst being of practical relevance to the industry. For those who continue to work through their studies, you are encouraged to use an issue currently faced within your organisation allowing you to make your course relevant to your workplace.

WHO SHOULD ATTEND

This course is suitable for those with an Honours degree in Engineering or related discipline at level 2:2 or above and for engineers and management personnel working in an engineering or operations environment.

BENEFITS TO YOU

This course is fully accredited by the EI ensuring the course content is to the highest industry standards and provides you with key recognition. This course will also count towards the academic requirements of the Institute, allowing you to work towards your chartered status. You will also be able to enjoy networking with fellow professionals from various backgrounds.

CAREER OPPORTUNITIES

Qualified professionals in asset integrity management are in demand by companies with a drive to prevent loss of human life or damage to the environment whilst realising the cost benefits of employing a holistic approach to their business operations.

BENEFITS TO ORGANISATIONS

Those studying on this course will be able to bring new knowledge to the organisation, developing processes and procedures which add real value to the workplace. Employees will be able to take the theory and immediately put it into practice, demonstrating the relevance of the material being taught.


THE FLEXIBILITY OF THE ONLINE DELIVERY WAS REALLY THE ONLY OPTION AVAILABLE FOR ME DUE TO WORKING IN THE OFFSHORE INDUSTRY. WHEN I RETURNED TO STUDY THE BENEFITS WERE HUGE IN TERMS OF BEING ABLE TO TAKE THE THEORY AND IMMEDIATELY PUT IT INTO PRACTICE AND CLEARLY SEE THE RELEVANCE OF THE MATERIAL BEING TAUGHT.

STEPHEN KINLOCH
SENIOR SURVEY ENGINEER, ANDREWS SURVEY

KEY DETAILS

 **STUDY OPTIONS**
Online Distance Learning (ODL)

 **START DATE**
Full-time September
ODL January

 **COURSE DURATION**
Full-time 1 year
ODL from 3 years (part-time)

 **FUNDING**
Available, visit
www.rgu.ac.uk/scholarships

 **FINAL AWARD**
MSc

 **EXIT AWARD**
PgCert/PgDip/MSc

 **COURSE LEADER**
Heather Gordon
h.e.gordon@rgu.ac.uk
T +44 (0)1224 262426

 **FURTHER INFORMATION**
www.rgu.ac.uk/energy

 **ACCREDITATION**


 **FEES**
Total cost of MSc*:
ODL
UK/EU/International
£15,550

*Course fees will differ depending on your final exit award

 **APPLY ONLINE NOW**

COMMUNICATIONS AND COMPUTER NETWORK ENGINEERING

MSc

YOU WILL LEARN TO:

- > Analyse the performance of a converged communications network
- > Design and implement converged communications networks
- > Analyse the performance of mobile, digital, radio and optical fibre communications systems
- > Design mobile, digital, radio and optical fibre communications systems
- > Analyse the performance of multimedia coding techniques
- > Select appropriate internet security techniques
- > Plan, implement, document and present a major project

COURSE CONTENT:

- > Analogue and Digital Communications
- > Cisco CCNA Stages 1 and 2
- > Data Networks
- > Multimedia Coding
- > Optical and Radio Communications
- > Cisco CCNA Stages 3 and 4
- > Internet Security
- > Project Management
- > MSc Project

PROGRAMME OVERVIEW

The global communications industry has recently experienced rapid growth in networked, radio and fibre optic communications. These technologies carry the information which allow the internet, mobile-phone services and wireless networks on which modern life depends to run. More radical change and further growth is on the way and this will impact every aspect of our lives. Network operators, network services companies, academic institutions, businesses and organisations are now planning and building converged networks. These will replace the current separate voice and data networks and bring a plethora of new services and opportunities to academic, business and domestic users of networks.

This course is newly accredited by the Institute of Engineering and Technology (IET) and has been developed to provide you with the necessary skills and knowledge to build and operate these networks, and focuses on the practical application of building, configuring, testing and troubleshooting networks.

You will be taught via a mixture of lectures, tutorials and laboratory classes. Furthermore, as Robert Gordon University is a Cisco Regional Networking Academy, you will be taught using Cisco training materials and successful completion of this course will allow you to progress to Cisco Certified Network Associate certification (CCNA).

Individual Project

In order to complete the full MSc you will submit an individual project with an industry focus. For those who continue working whilst studying, this will allow you to focus on an issue you are currently experiencing within your role. This is designed to allow you to demonstrate the skills and knowledge gained through the course along with integrating and implementing research methods, whilst being of practical relevance.

WHO SHOULD ATTEND

This course is suitable for those with an undergraduate degree in either Electronic or Electrical Engineering at a 2:2 level or above.

BENEFITS TO YOU

The course is accredited by the Institute of Engineering and Technology (IET). This provides you with the appropriate academic requirements to work towards Chartered Engineer status (CEng) when presented with a CEng accredited Bachelors programme or when equivalent prior learning at Bachelors level is demonstrated.

This course is also available on a part-time basis.

CAREER OPPORTUNITIES


This rapidly changing global industry enjoys excellent employment opportunities with previous graduates going on to work as communication engineers in optical and radio systems as well as network managers, network support engineers and network operations engineers.

BENEFITS TO ORGANISATIONS


Those studying on this course will be able to bring new knowledge to the organisation, developing processes and procedures which add real value to the workplace. Employees will be able to take the theory and immediately put it into practice demonstrating the relevance of the material being taught.

THIS COURSE IS NEWLY ACCREDITED BY THE INSTITUTE OF ENGINEERING AND TECHNOLOGY (IET) AND HAS BEEN DEVELOPED TO PROVIDE YOU WITH THE NECESSARY SKILLS AND KNOWLEDGE TO BUILD AND OPERATE THESE NETWORKS, AND FOCUSES ON THE PRACTICAL APPLICATION OF BUILDING, CONFIGURING, TESTING AND TROUBLESHOOTING NETWORKS.

KEY DETAILS

 **STUDY OPTIONS**
Full-time, part-time

 **START DATE**
September

 **COURSE DURATION**
Full-time 1 year
Part-time from 3 years

 **FUNDING**
Available, visit www.rgu.ac.uk/scholarships


 **FINAL AWARD**
MSc

 **EXIT AWARD**
PgCert/PgDip/MSc

 **COURSE LEADER**
Chris Macleod
chris.macleod@rgu.ac.uk
T +44 (0)1224 262412

 **FURTHER INFORMATION**
www.rgu.ac.uk/energy

 **ACCREDITATION**


 **FEES**
Total cost of MSc*:

Full-time
UK/EU
£6,000

Full-time
International
£11,450

*Course fees will differ depending on your final exit award

 **APPLY ONLINE NOW**

DRILLING AND WELL ENGINEERING

MSc

YOU WILL LEARN TO:

- > Develop a critical approach to the implementation of drilling and well engineering and to provide a broad and sound understanding of the scientific, engineering and management aspects related to selected areas of effective drilling and well engineering
- > Apply innovative thinking and develop greater professional knowledge which can be applied to drilling and well engineering
- > Use initiative, creativity, interpersonal skills and a high level of independent critical judgement at a senior level

COURSE CONTENT:

- > Subsurface
- > Wells
- > Facilities
- > Business Essentials
- > Drilling Technology
- > Advanced Completion and Subsea Systems
- > Drilling Operations Management
- > Advanced Well Engineering
- > Individual Project Report

PROGRAMME OVERVIEW

We have worked closely with industry partners, blending a mix of solid theory and hands-on practical experience to develop this course which is now well recognised within industry. The course focuses on the concept of effective well construction, and aims to develop high levels of professional skill in the key areas of well design, drilling and operations management.

Through this focus and examining the lifecycle of the well, the course develops high levels of professional competence in the key areas of well design, drilling and operations management and will give you real practical and academic skills which will enhance your career options. The course represents a significant advance in the delivery of specialised professional development. Its modular structure and flexible delivery are designed especially to meet the 'real world' needs of industry.

Those studying on the full-time course will be taught via a combination of lectures, guest speakers, seminars, lectures, tutorials and discussion. All full-time students are expected to participate in our induction week and in industry field trips throughout the course.

The Online Distance Learning (ODL) option has been designed to fit in and around your work commitments, allowing you to study from any location. You will be taught via our virtual learning environment CampusMoodle, which allows us to recreate the same challenging interactive format of the on-campus programmes for those studying at a distance. The ODL course uses the same material and content as the full-time on-campus course and typically is delivered by the same subject specialists.

Individual Project

In order to complete the full MSc you will submit an individual engineering research project with an industry focus. This is designed to allow you to demonstrate the skills and knowledge gained through the course along with integrating and implementing research methods, whilst being of practical relevance.

WHO SHOULD ATTEND

This course is suitable for those who have an Honours degree in Engineering or closely related discipline or who have extensive practical industrial experience relevant to drilling and well engineering. Students from Nigeria should have a 2:1 or above in Engineering or a related discipline from a Federal University. The course is aimed at practising drilling and well engineers working in oil and gas companies, energy companies, national oil companies, engineering firms and engineering service companies.

BENEFITS TO YOU

This course is fully accredited by the Energy Institute (EI) which ensures the course content is to the highest industry standards providing you with key recognition. This course will also count towards the academic requirements of the EI allowing you to work towards your chartered status.

CAREER OPPORTUNITIES

Previous graduates have gone on to gain employment in every oil producing area of the world and work for many of the oil majors and drilling contractors. This innovative course is designed to deliver tomorrow's drilling and well engineering experts and is relevant to senior and middle managers and engineers.

THE COURSE WAS CONSIDERED PART OF MY CAREER DEVELOPMENT. DURING MY TWO YEARS OF STUDY, I HAD THE CHANCE TO COLLABORATE WITH INDUSTRY PROFESSIONALS AND PROFESSORS AS WELL AS VERY EXPERIENCED FELLOW STUDENTS. THE STRUCTURE WAS SUCH THAT INTERACTIVE DISCUSSIONS AND EXERCISES ENHANCED MY OVERALL SKILLS AND PREPARED ME FOR DAY-TO-DAY JOB INTERFACES. ALL THIS INTENSIVE TIME CREATED GOOD FRIENDSHIPS AND MOST IMPORTANTLY ACADEMIC AND INDUSTRY LINKAGE INVALUABLE FOR THE FUTURE.

ATHANASIOS KITSIOS
SUBSEA ENGINEER FOR JP KENNY CALEDONIA LTD, UK

KEY DETAILS

 **STUDY OPTIONS**
Full-time,
Online Distance Learning (ODL)

 **START DATE**
Full-time September
ODL January

 **COURSE DURATION**
Full-time 1 year
ODL from 3 years (part-time)

 **FUNDING**
Available, visit
www.rgu.ac.uk/scholarships

 **FINAL AWARD**
MSc

 **EXIT AWARD**
PgCert/PgDip/MSc

 **COURSE LEADER**
John Bisset
j.bisset@rgu.ac.uk
T +44 (0)1224 262377

 **FURTHER INFORMATION**
www.rgu.ac.uk/energy

 **ACCREDITATION**


 **FEES**
Total cost of MSc*:
Full-time
UK/EU/International
£15,550
ODL
UK/EU/International
£15,550

*Course fees will differ depending on your final exit award

 **APPLY ONLINE NOW**

OFFSHORE RENEWABLES

MSc

(subject to validation)

YOU WILL LEARN TO:

- > Apply fundamental principles of engineering and project management to assess and manage life-cycle phases of offshore renewables
- > Apply basic concept and principles of inspection and maintenance optimisation to maximise offshore renewable energy generation
- > Apply reliability, availability and maintainability tools and techniques to offshore renewable energy infrastructures as well as grid connection facilities to maximise the return on capital investment.

COURSE CONTENT:

- > Renewable Energy Systems
- > Offshore Foundation and Structures
- > Electrical Power
- > Control and Telemetry Systems
- > Project Management
- > Maintenance and Inspection for Asset integrity
- > Introduction to Reliability and Integrity
- > Health, Safety, Environment and Risk assessment
- > MSc Project

PROGRAMME OVERVIEW

This course has been designed to provide you with an understanding of the physical, technological, economic and environmental aspects of renewable energy sources, and of their present and potential future role in energy supply systems.

You will gain the skills and knowledge to assess different types of offshore renewable foundations and structures, the challenges of maintenance, decommissioning, health and safety implications of each design. You will also look at the operation and control of electrical power and energy systems as well as the control and telemetry systems to allow integrative design.

You will be able to identify, justify and apply maintenance systems and techniques for effective management of the integrity and reliability of offshore renewable infrastructures as well as carry out effective integrity, reliability and availability assessments of the infrastructures and associated grid connection facilities.

The course also covers managing the health, safety and environmental impact of offshore renewables through effective risk assessment and environmental impact analysis. It will promote an understanding of the principles, fundamental concepts and strategies of project management, and of the benefits to the offshore renewables sector. It will enable you to practice and carry out essential project planning and execution processes.

You will be taught via our virtual learning environment CampusMoodle, allowing you to study from any location and is designed to fit in and around your work commitments. You will be taught and supported by experienced industry professionals using current standards and fundamental engineering practices, which allows us to recreate the same challenging interactive format of the on-campus programmes for those studying at a distance.

BASED IN THE ENERGY CAPITAL OF EUROPE, WE ARE A MAJOR PROVIDER OF ONLINE DISTANCE LEARNING PROFESSIONAL EDUCATION TO THE ENERGY AND OFFSHORE INDUSTRY AND ARE UNIQUELY PLACED TO EXPLOIT THE OPPORTUNITY PRESENTED BY THE DRIVE TOWARD RENEWABLE ENERGY SOURCES.

WHO SHOULD ATTEND

This course is suitable for those who hold an honours degree, or equivalent, in Engineering or related discipline at 2:2 or above.

BENEFITS TO YOU

Aberdeen as the Energy capital of Europe and Robert Gordon University as a major provider of Open and Distance Learning professional education to the energy and offshore industry are uniquely placed to exploit the opportunity presented by the drive toward renewable energy sources. This course builds on the strengths of the existing courses in Asset Integrity Management, Oil and Gas Engineering and Subsea Engineering and adds content on renewable energy and electrical power, forming a unique programme which is relevant to the needs of professional engineers working in, or aspiring to work in, the offshore renewables sector. The MSc will equip graduates to become part of the 21st century engineering community responsible for sustainable energy generation for the future.

CAREER OPPORTUNITIES

An EU-wide study estimated that renewable energy has the potential to create over 900,000 new jobs by 2020. The British Wind Energy Association states that "...the range of opportunities within the wind energy industries is diverse, and the demand for talent is vast. Over the next 10 years it is anticipated that the wind energy industry will grow from 5,000 up to potentially 60,000 employees." In Scotland, an additional 26,000 jobs could be created in the renewable energy sector and about 28,000 offshore wind specific jobs by 2020 (Scottish Government, 2010).

BENEFITS FOR YOUR ORGANISATION

Graduates will be equipped with broad and wide-ranging experience covering the renewable energy sector. They possess excellent diagnostic and technical skills, leadership potential, team working abilities, time management skills, presentation skills which are essential for any progressive organisation within the renewable energy sector.

KEY DETAILS

 **STUDY OPTIONS**
Online Distance Learning (ODL)


 **START DATE**
ODL January 2013

 **COURSE DURATION**
ODL from 3-5 years

 **FUNDING**
Available, visit www.rgu.ac.uk/scholarships

 **FINAL AWARD**
MSc

 **EXIT AWARD**
PgCert/PgDip/MSc

 **COURSE LEADER**
Dr Jesse Andrawus
j.a.andrawus@rgu.ac.uk
T +44 (0)1224 262304

 **FURTHER INFORMATION**
www.rgu.ac.uk/energy

 **FEES**
Total cost of MSc*:

ODL
UK/EU/International
£11,890

*Course fees will differ depending on your final exit award

 **APPLY ONLINE NOW**

OIL AND GAS ENGINEERING

MSc

YOU WILL LEARN TO:

- > Use a critical approach to upstream oil and gas engineering
- > Apply the scientific, engineering and management aspects related to selected key areas of oil and gas engineering
- > Utilise skills in integrating knowledge drawn from different subject areas and learn innovative thinking, which can be applied to the discipline of oil and gas engineering
- > Develop initiative, creativity, inter-personal skills and a high level of independent critical judgement

COURSE CONTENT:

- > Subsurface
- > Wells
- > Facilities
- > Business Essentials
- > Engineering Project Management
- > Environmental Impact and Risk Management
- > Individual Project Report

Choose two from:

- > Advanced Completion & Subsea Systems **or** Processing & Pipelines
- > Drilling Technology **or** Materials & Corrosion

PROGRAMME OVERVIEW

This course has been developed in close collaboration with industry and follows guidelines set out by the Energy Institute (EI) which ensure the specialist subject areas covered are up to date and provide you with the essential knowledge and skills required for an engineering career within the upstream oil and gas industry.

The course builds on scientific and mathematical skills obtained through experience or from a first degree and has a strong grounding in project engineering with a focus on management relating to selected key areas within oil and gas. You will acquire and utilise skills and integrate knowledge drawn from different subject areas.

Those studying on the full-time course will be taught via a combination of lecturers and guest speakers in seminars, lectures, tutorials and online campus discussion forums. You will also participate in the induction week and a number of industrial field trips throughout the course.

The Online Distance Learning (ODL) option has been designed to fit in and around your work commitments, allowing you to study from any location. You will be taught via our virtual learning environment CampusMoodle, which allows us to recreate the same challenging interactive format of the on-campus programmes for those studying at a distance. The ODL course uses the same material and content as the full-time on-campus course and is supported by subject specialists.

Individual Project

In order to complete the full MSc you will submit an individual engineering research project with an industry focus. This is designed to allow you to demonstrate the skills and knowledge gained through the course along with integrating and implementing research methods, whilst being of practical relevance.

WHO SHOULD ATTEND

This course is suitable for those who hold an Honours degree in Engineering or related discipline at level 2:2 or above and typically have at least one year's relevant industrial experience. However those with other qualifications but with considerable appropriate relevant industrial experience may be considered. Students from Nigeria should have a 2:1 or above in Engineering or a related discipline from a Federal University.

BENEFITS TO YOU

This course is fully accredited by the Energy Institute (EI) which ensures the course content is to the highest industry standards providing you with key recognition. This course will also count towards the academic requirements of the EI allowing you to work towards your chartered status.

CAREER OPPORTUNITIES

This course provides the knowledge required for a range of professional careers within the oil and gas industry. Previous graduates have gone on to work within oil and gas companies, energy companies, national oil companies, engineering firms, and project service companies.

BENEFITS TO ORGANISATIONS

Those studying on this course will be able to bring new knowledge to the organisation, developing processes and procedures which add real value to the workplace. Employees will be able to take the theory and immediately put it into practice, demonstrating the relevance of the material being taught.


THE OIL AND GAS ENGINEERING COURSE PROVIDED A COMPREHENSIVE LEVEL OF TEACHING IN SEVERAL KEY AREAS OF OFFSHORE HYDROCARBON PRODUCTION. THE MATERIAL PROVIDED WAS EXTENSIVE AND CLEARLY STRUCTURED TO SUIT MY METHOD OF STUDY, AND THE SUPPORT PROVIDED BY THE STAFF WAS FIRST RATE. I PARTICULARLY FOUND THE ONLINE FORUM USEFUL, GIVING EASY ACCESS TO MY FELLOW STUDENTS AND BRINGING REAL-TIME WORKING EXAMPLES TO THE FLOOR.

CORRIE EWART
SUBSEA OPERATIONS ENGINEER, BP

KEY DETAILS

 **STUDY OPTIONS**
Full-time,
Online Distance Learning (ODL)

 **START DATE**
Full-time September
ODL January

 **COURSE DURATION**
Full-time 1 year
ODL from 3 years (part-time)

 **FUNDING**
Available, visit
www.rgu.ac.uk/scholarships

 **FINAL AWARD**
MSc

 **EXIT AWARD**
PgCert/PgDip/MSc

 **COURSE LEADER**
George Kidd
g.kidd@rgu.ac.uk
T +44 (0)1224 262322

 **FURTHER INFORMATION**
www.rgu.ac.uk/engineering

 **ACCREDITATION**


 **FEES**
Total cost of MSc*:

Full-time
UK/EU
£6,550

Full-time
International
£14,750

Online Distance Learning
UK/EU/International
£11,900

*Course fees will differ depending on your final exit award

 **APPLY ONLINE NOW**

PETROLEUM PRODUCTION ENGINEERING

MSc

YOU WILL LEARN TO:

- > Develop a critical awareness of current industry challenges and available techniques for addressing these
- > Deal with complex issues and incomplete data, both systematically and creatively
- > Demonstrate self-direction and originality in tackling and solving problems
- > Show initiative, personal responsibility and decision-making skills
- > Provide clear communication of project conclusions to both specialist and non-specialist audiences

COURSE CONTENT:

- > Subsurface
- > Wells
- > Facilities
- > Business Essentials
- > Production System Modelling
- > Production Operations
- > Advanced Completion and Subsea Systems
- > Petroleum Economics and Asset Management
- > Individual Project Report

PROGRAMME OVERVIEW

The course has been developed and is supported by experienced industry professionals, with reference to authentic industry application software, current technical standards, leading-edge engineering practices and is fully accredited by the Energy Institute (EI).

This course will allow you to develop the skills and knowledge necessary to select equipment, optimise the design and performance of production facilities and manage field and well production operations. You will also cover wells and related production facilities, whether on land, offshore or subsea. In addition to the more technical aspects of the course you will also gain valuable management skills for working in a multidisciplinary team on complex projects such as field developments, field enhancement projects and well rehabilitations.

Those studying on the full-time course will be taught via a combination of guest speakers, tutorials, workshops, lectures and discussion. Previous guest presentations have included a demo of I-pop by Chevron and lab exercises on Petrel and Eclipse by Schlumberger. You will also participate in relevant field visits. Previous examples are BP, Schlumberger and Corex.

The Online Distance Learning (ODL) option has been designed to fit in and around your work commitments, allowing you to study from any location. You will be taught via our virtual learning environment CampusMoodle, which allows us to recreate the same challenging interactive format of the on-campus programmes for those studying at a distance. The ODL course uses the same material and content as the full-time on-campus course and is delivered by the same subject specialists, to the same learning outcomes.

Individual Project

In order to complete the full MSc you will submit an individual engineering research project with an industry focus. This is designed to allow you to demonstrate the skills and knowledge gained through the course along with integrating and implementing research methods, whilst being of practical relevance.

WHO SHOULD ATTEND

This course is suitable for those who hold an Honours degree in Engineering or related discipline at level 2:2 or above and typically have at least one year's relevant industrial experience. However those with other qualifications but with considerable appropriate relevant industrial experience may be considered. Students from Nigeria should have a 2:1 or above in Engineering or related discipline from a Federal University.

This course is aimed at practising oilfield engineers and managers who already have at least two years' oil and gas industry experience.

BENEFITS TO YOU

This course is fully accredited by the Energy Institute (EI) which ensures the course content is to the highest industry standards providing you with key recognition. This course will also count towards the academic requirements of the EI allowing you to work towards your chartered status.

The course will facilitate your progression to a career as an engineer or manager, providing you with the tools and techniques required to manage and operate fields and wells effectively after they are drilled.

CAREER OPPORTUNITIES

Previous graduates generally work as fully qualified petroleum engineers and managers in the upstream oil and gas industry, specialising in the production discipline.

BENEFITS TO ORGANISATIONS

Those studying on this course will be able to bring new and cross-networked knowledge to the organisation, developing processes and procedures which add real value to the workplace. Employees will be able to take the theory and immediately put it into practice demonstrating the relevance of the material being taught.

KEY DETAILS

 **STUDY OPTIONS**
Full-time,
Online Distance Learning (ODL)

 **START DATE**
Full-time September
ODL January

 **COURSE DURATION**
Full-time 1 year
ODL from 3 years (part-time)

 **FUNDING**
Available, visit
www.rgu.ac.uk/scholarships

 **FINAL AWARD**
MSc

 **EXIT AWARD**
PgCert/PgDip/MSc

 **COURSE LEADER**
Duncan Stephen
d.stephen@rgu.ac.uk
T +44 (0)1224 262368

 **FURTHER INFORMATION**
www.rgu.ac.uk/engineering

 **ACCREDITATION**


 **FEES**
Total cost of MSc*:

Full-time
UK/EU/International
£15,550

ODL
UK/EU/International
£15,550

*Course fees will differ depending on your final exit award

 **APPLY ONLINE NOW**

SUBSEA ENGINEERING

MSc

YOU WILL LEARN TO:

- > Develop a critical awareness of current industry challenges and available techniques for addressing these
- > Deal with complex issues and incomplete data, both systematically and creatively
- > Demonstrate self-direction and originality in tackling and solving problems

COURSE CONTENT:

- > The Oceans, Operability and Humans in the Ocean
- > Wells
- > Facilities
- > Subsea Systems
- > Individual Project Report

Choose four from:

- > Subsea Pipelines*
- > Subsea Reliability and Intervention
- > Materials and Corrosion Science
- > Risers and Riser Hydrodynamics
- > Control and Telemetry Systems

A further three electives are available (for an additional fee) based on short-course delivery. These are delivered by Jee Ltd as part of their intensive short-course programme:

- > Design of Subsea Pipelines*
- > Installation Engineering of Subsea Pipelines
- > Operations and Integrity Management for Pipelines

*Either or, but not both

PROGRAMME OVERVIEW

This course has been designed in close consultation with industry to enable us to provide you with the most up-to-date content and specialist modules including drilling and completion technology and topside processing facilities as well as the core areas of subsea engineering including wet trees, pipelines, risers and other seabed equipment. Current and emerging technologies and their design limitations as applied to deepwater, long tie-back and HP/HT wells are also covered.

The Online Distance Learning (ODL) option has been designed to fit in and around your work commitments, allowing you to study from any location. You will be taught and supported by experienced industry professionals using current standards and fundamental engineering practices via our virtual learning environment CampusMoodle, which allows us to recreate the same challenging interactive format of the on-campus programmes for those studying at a distance.

In order to support your course work you will have access to a number of industry-specific resources such as API and DNV codes of practice in addition to technical papers from SPE One Petro database. This will enable you to keep abreast of current industry practices and procedures as well as new technologies.

Individual Project

In order to complete the full MSc you will submit an individual engineering research project with an industry focus. This is designed to allow you to demonstrate the skills and knowledge gained through the course along with integrating and implementing research methods, whilst being of practical relevance.

If you are self-employed, you are encouraged to engage with industry through the University to enable you to identify a suitable project. Typical examples of project areas include design, operation and performance of deepwater intervention and IWOC systems, reliability studies related to subsea systems, design studies related to risers, pipelines, production control, power and communication systems.

WHO SHOULD ATTEND

This course is designed for practising subsea engineers and managers with at least two years' oil and gas industry experience who hold an Honours degree in Engineering or related discipline at level 2:2 or above.

However, those with other qualifications but with considerable appropriate relevant industrial experience may be considered. Students from Nigeria should have a 2:1 or above in Engineering or a related discipline from a Federal University.

BENEFITS TO YOU

This course will enable you to enhance your employability in the subsea industry, formalise your experience and allow you to progress onto senior management.

BENEFITS TO ORGANISATIONS

Those studying on this course will be able to bring new knowledge to the organisation, developing processes and procedures which add real value to the workplace. Employees will be able to take the theory and immediately put it into practice, demonstrating the relevance of the material being taught.

THE COURSE CONTENT IS RELEVANT TO SUBSEA INDUSTRY NEEDS. IT IS INTERESTING AND CHALLENGING, PROVIDING AN ENHANCED LEARNING AND APPRECIATION OF TOPICS SOMETIMES OUTWITH THE REALM OF YOUR WORK EXPERIENCE. COMPLETING A MASTERS DEGREE WILL REINFORCE AND UPDATE MY ACADEMIC CREDIBILITY WITHIN THE SECTOR AND HOPEFULLY LEAD TO MORE OPPORTUNITIES OF A VARIED AND EXCITING NATURE.

GRAEME BUCHAN
LEAD SUBSEA ENGINEER, PETREX LIMITED

KEY DETAILS

 **STUDY OPTIONS**
Online Distance Learning (ODL)

 **START DATE**
January

 **COURSE DURATION**
3 years

 **FUNDING**
Available, visit www.rgu.ac.uk/scholarships

 **FINAL AWARD**
MSc

 **EXIT AWARD**
PgCert/PgDip/MSc

 **COURSE LEADER**
Allan Adam
a.adam@rgu.ac.uk
T +44 (0)1224 262313

 **FURTHER INFORMATION**
www.rgu.ac.uk/engineering

 **FEES**
Total cost of MSc*:
UK/EU/International
£15,550
*Course fees will differ depending on your final exit award

 **APPLY ONLINE NOW**

A-Z GLOSSARY OF MODULES

All modules covered within your course are listed on each of the course pages. The content of the modules is summarised below.

Advanced Completion and Subsea Systems

This module will allow you to apply advanced completion technologies to solve particular petroleum production challenges. You will develop the ability to integrate these technologies in the complex subsea environment, both in terms of mechanical well intervention interfaces and the specific design and operation attributes of subsea production facilities.

Advanced Well Engineering

This module focuses on the application of engineering practices to optimise and deliver enhanced productivity. These include QRA-based well programming, advanced drilling technologies and conceptual design of a deepwater well.

Asset Lifecycle Analysis

You will develop a good understanding of the variables affecting the acquisition, running and replacement of an asset and how the whole-life costs can be optimised.

Business Essentials

You will develop an understanding of safety and environmental processes and legislations relevant to the oil and gas industry. You will also gain an initial understanding of team working and project engineering processes.

Cisco CCNA Semesters 1 and 2

This module will provide you with the ability to understand the operation of, configure and troubleshoot multi-router computer networks. You will assess the appropriate application of switches, routers and routing protocols in the design of a wide area network.

Cisco CCNA Semesters 3 and 4

You will gain an understanding of the design and management of local and wide area networks as well as advanced WAN technology: devices, encapsulation formats and link options.

Competence and Performance Assessment

You will learn to identify performance and competence assessment techniques to enable the use of business management expertise, allowing you to manage assets in relation to an organisation's values.

Control and Telemetry Systems

This module provides a basis of understanding of control and telemetry systems to allow integrative design and an understanding of the capabilities of typical E&P subsea control systems.

Data Networks

You will learn to evaluate the techniques and systems used in the design and operation of high-speed data networks.

Design of Subsea Pipelines

(delivered by Jee Ltd)

This module aims to extend the understanding of, and to develop an ability to perform subsea and deepwater pipeline design calculations based on codes and industry guidelines.

Drilling Operations Management

This module will introduce the principles and techniques involved in managing well engineering and construction operations. You will gain an understanding of the theory and practice of drilling and well engineering.

Drilling Technology

This module focuses on the engineering practices of well construction. You will learn to adapt these practices to a range of well types, and encouraging a strategic approach to well planning.

Engineering Project Management

You will gain an understanding of the principles, fundamental concepts and strategies of project management, and of the benefits to organisations. The module will enable you to practise and carry out essential project planning and execution processes.

Environmental Impact and Risk Management

This module provides a practical guide to the technical and scientific concepts required by those who have professional responsibility for the design, management or conduct of impact assessment and risk management. You will learn to explain key legislation, terminology and documentation relevant to environmental impact assessment.

Facilities

You will develop an ability to identify and appraise the requirement for various components of surface and subsea petroleum production facilities. Working with other specialists as necessary, you will gain the ability to optimise the design and performance of both the individual components and the full system over the lifecycle of the facility.

Individual Project Report

You will develop skills in the investigation and analysis of engineering problems and creativity in devising effective solutions, through the detailed research of one selected topic.

Installation Engineering for Subsea Pipelines

(delivered by Jee Ltd)

This module sets out the methods of offshore pipeline construction and how the activities interrelate. It aims to impart installation engineering design methods and associated calculations needed for practical offshore pipeline construction.

Integrity and Reliability Management

This module will allow you to evaluate, apply and develop strategies for optimum asset integrity and reliability management.

Internet Security

You will gain the ability to understand and manage the security and client-server (e.g. webserver) aspects of computer networks with internet access.

Introduction to Integrity and Reliability

This module allows you to develop an understanding of the integrity and reliability relationship, and their importance to organisations. This includes applying relevant techniques to perform criticality analysis on an asset.

Maintenance and Inspection for Asset Integrity

You will learn to identify, justify and apply the systems and techniques that are used to effectively maintain and monitor asset integrity and reliability.

Materials and Corrosion Science

You will develop an understanding of the properties of materials used within the oil and gas industries, their uses, limitations and design constraints. You will also develop an understanding of corrosion science and mechanisms, with particular reference to the oil and gas industry.

Mobile and Satellite Communications

Analogue and Digital Communications You will learn the basis of analogue and digital communication systems. You will also develop an understanding of the boundaries of existing technologies and identify emerging trends

MSc Project

(Communications Engineering)

You will analyse, plan, execute and review critically a major project based on a brief drawn in the context of the MSc programme.

Multimedia Coding

You will investigate algorithms and architectures for coding still images and video sequences and their implementation as part of coding standards. You will evaluate and compare the performance of image and video coding algorithms in terms of compression, computation and transport efficiency.

Operation and Integrity Management of Pipelines

(delivered by Jee Ltd)

This module allows you to apply the principles of integrity management to subsea and deepwater systems.

Optical and Radio Communications

You will gain the ability to analyse and design optical fibre and radio communication systems.

Petroleum Economics and Asset Management

You will gain an understanding of the role of petroleum economics in field development as well as through life incremental projects. The module examines these economic studies in the context of modern asset management-based organisation for oil and gas facilities.

Problem Solving

You will develop knowledge of the tools and techniques used to identify and aid resolution of problems such as human, organisational and management system failures.

Processing and Pipelines

You will gain an understanding of the principles and practice of pipeline design and installation for onshore and offshore environments. The module also covers subsea production system control strategies and processes and the design and operation of field process facilities.

Production Operations

This module has a particular focus on specifying production flow measurement equipment, managing production data, maintaining the integrity of production facilities by addressing corrosion and production chemistry issues. The module also develops abilities in production enhancement through well intervention, treatment and formation stimulation.

Production System Modelling

You will develop your skills in integrated asset management with the aid of production optimisation and modelling software.

Project and Work Management

You will learn to critically analyse, within a problem solving and strategic environment, the processes and strategies undertaken by project managers to develop effective systems for the management of work, projects, and assets.

Project Management

This module covers project planning, control and management. You will develop an understanding of the professional issues surrounding project management and produce a project plan for a real project.

Risers and Riser Hydrodynamics

You will gain an understanding of flow effects on pipelines and risers and the techniques used to analyse motions and forces.

Safety, Health, Environment and Risk Assessment

This module covers safety, health and environmental management systems (SHEMS), the principles of risk assessment and risk management, human factors and an understanding of a safety culture and its measurement and development.

Subsea Pipelines

You will gain an understanding of subsea pipeline technology and the ability to analyse and apply knowledge to subsea pipeline engineering systems.

Subsea Reliability and Intervention

This module provides an understanding of the principles of reliability, inspection, maintenance and maintainability for subsea engineering systems.

Subsurface

This module integrates knowledge of petroleum geology and the properties of petroleum fluids to allow you to develop an understanding of reservoir engineering and formation evaluation and demonstrate how the value of a hydrocarbon accumulation is created.

Subsea Systems

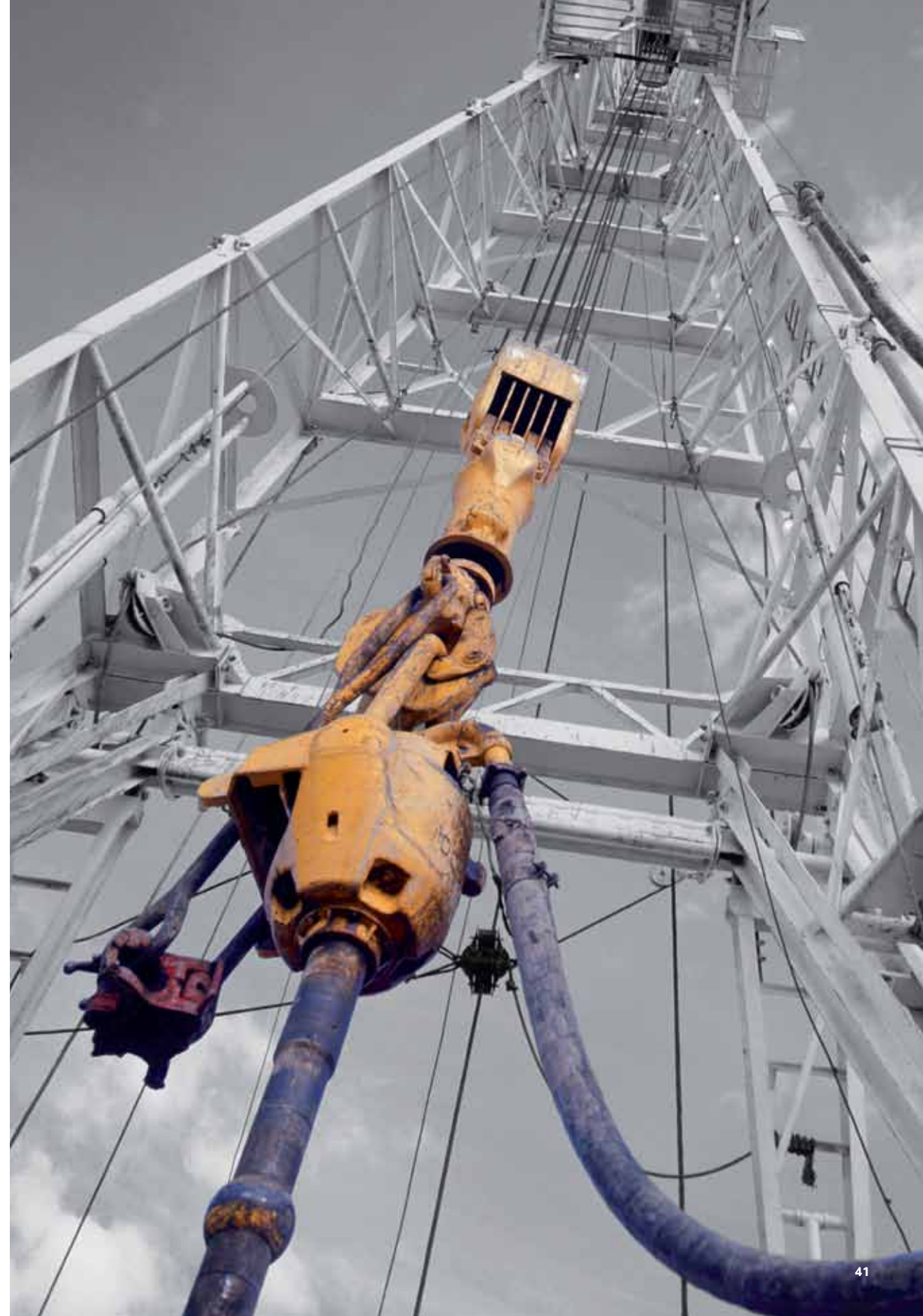
The module will provide you with a broad view of subsea engineering fundamentals, the majority of which will be studied in more depth in other modules.

The Oceans, Operability and Humans in the Ocean

This module equips you with an understanding of the ocean, covering aspects of intervention such as diving and vessel operability. You will critically analyse the relationship between wind and waves, apply relevant techniques to develop wave fields and spectral descriptions of wave fields. You will also look at diver physiology and the systems and equipment used for saturation diving.

Wells

You will gain an understanding of the essential principles of well construction, specifically from a perspective of engineering integrity. The module also delivers knowledge of the topic into deeper understanding of wells and well systems.



FURTHER INFORMATION

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HOW TO APPLY

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

ENTRY REQUIREMENTS

All postgraduate courses in this guide are suitable for those who possess an undergraduate Honours degree in any discipline. Other qualifications and appropriate experience may be considered with entry, however this is subject to the University's judgement.

All our courses require documentation of qualifications equivalent to our UK entry requirements. Applicants whose first language is not English should normally have an IELTS score of 7 or more in each component, for entry to the course. An equivalent English language qualification is acceptable.

APPLY ONLINE

You can now apply for your course directly via our online application form which will also allow you to upload documents in support of your application.

It 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.

All supporting documents (certificates, transcripts of qualification) should be scanned and ready to upload.

You will also have the option to upload your CV and any references that you wish to provide.

To apply now for instructions on how to use this service, visit www.rgu.ac.uk/applyonline

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.

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

Contact details

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

pgoffice@rgu.ac.uk
T 01224 262132

FEES AND FUNDING

Postgraduate students will normally make their own arrangements for payment of fees. However, there are a number of funding and scholarships options open to UK/EU and international students. All fees are listed on individual course pages.

FUNDING

For enquiries regarding fee payment options, contact Student Finance on **+44 (0)1224 262664** or email studentfinance@rgu.ac.uk

10% Alumni Loyalty Discount

We offer our alumni a 10% 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). The discount will apply to all courses (including short courses) apart from the MSc in Advanced Architectural Studies.

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

Postgraduate Students Allowance Scheme (PSAS)

Every year SAAS offers funding for certain full-time and some part-time vocational courses for Scottish and EU students only.

Please note that you should not apply directly to SAAS for funding. If funding is available on your course we will contact you to discuss the application process. You must then apply to SAAS before the deadline that you are given.

For details on courses with funding available and eligibility visit: www.saas.gov.uk

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.

Individual Learning Accounts (ILA 500)

Scottish domiciled students studying a part-time/distance learning postgraduate course at the University who earn less than £22,000 pa, may be entitled to apply for an ILA (Individual Learning Account) of up to £500.

Terms and conditions of these grants are reviewed annually, therefore students are advised to visit www.ilascotland.org.uk to check for availability.

SCHOLARSHIPS

RGU: SPORT scholarship

RGU: SPORT aims to assist with the development and promotion of sporting excellence in students and alumni of Robert Gordon University.

In support of this, there are a number of sports scholarships, sponsored by Technip, 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. These are designed to help students in every aspect of their pursuit of sporting excellence and are not primarily concerned with offering financial assistance to recipients, but will be tailored to meet individual needs on a case by case basis.

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.

Carnegie-Cameron Taught Postgraduate Bursaries

Offered to Scottish students undertaking either a one year, full-time or two year, part-time taught postgraduate degree in any subject offered by the University.

The awards are reviewed annually and will be automatically deducted from tuition fees. Bursaries will be awarded on the basis of an overall assessment of the merit and promise of the candidate, including their financial circumstances.



The Talisman Scholarship

In the UK, **Talisman** is the second largest oil operator and fourth largest gas operator in the North Sea, and provides extensive expertise in reservoir engineering and drilling technology. This prestigious award provides funding support up to the value of £10,000 for those who have accepted the offer of a full-time place on one of the following courses: **Oil and Gas Engineering, Drilling and Well Engineering** or **Petroleum Production Engineering**. This scholarship is not available to International students.

Engineering Merit Scholarship

The School of Engineering is pleased to offer a number of merit scholarships to outstanding students who wish to study at the School.

The value of awards can be up to the value of £2,000 and can be applied for by international and UK/EU students.

For further details on our University scholarships and eligible courses visit: 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 to students applying from **Canada, China, India and USA**. The awards are open to students who are pursuing a taught one year Masters degree at a Scottish university.

BEING A SPORTS SCHOLAR HAS MADE SUCH A HUGE DIFFERENCE TO MY TRAINING. THE TAILOR-MADE PROGRAMME I RECEIVE INCLUDES SPORTS COACHING, CONDITIONING ADVICE AND PHYSIOLOGICAL AND PERFORMANCE TESTING, AS WELL AS EXPERT SUPPORT AND GUIDANCE ON NUTRITION AND SPORTS SCIENCE.

GOLD MEDALLIST SWIMMER, HANNAH MILEY
RGU: SPORT SCHOLARSHIP

Those who are successful will be offered a scholarship totalling £2,000. Students from the above countries can apply for the scholarship when they hold a conditional offer or an unconditional offer from the respective Scottish institutions.

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

RESEARCH

Robert Gordon University is focused on the application of our research to benefit staff and students and contribute to the wider economy and society.

Our research grant income has almost doubled to £2.7m, following our success in the Research Assessment Exercise (RAE). This success is the result of a significant investment in our research activities and a dramatic improvement in the number and quality of researchers.

INSTITUTE FOR INNOVATION, DESIGN AND SUSTAINABILITY RESEARCH (IDEAS)

The Institute aims to create a research community and environment that establishes a critical mass of researchers delivering high quality research in order to grow long-term sustainability and build effective alliances with industry and communities of practice.

We take direct relevance and impact of our research as a central point of our work, including work with government and industries including the oil and gas sectors, construction, architecture, urban design and energy providers. The impact of this activity on practice in itself forms a specific research centre, Centre for Understanding Sustainability in Practice (CUSP). This new multidisciplinary centre of research excellence exploits the interfaces between these diverse disciplines.

The Institute develops innovative knowledge and technologies that are highly relevant to industry and professional practice. Its research and knowledge exchange activities are focused around three key themes:

Creative Design and Innovation

This theme examines the changing role of the artist and designer in response to organisational, environmental and economic challenges.

- Art and the Public Sphere
- Cultures of Representation
- Design and Innovation

Digital Technologies

A key principle of our research is social relevance and much of our work brings benefit to science, industry and the wider public.

- Knowledge Based Systems Group
- Computational Intelligence Group
- Information Retrieval research Group.
- Cognitive Engineering Group
- Centre for Video Communications
- Information Systems Group

Design and Innovation

This theme includes research dealing with technical solutions to real problems, including issues of renewable energy from wind and water, environmental sensing and remediation and psychological and behavioural studies concerning the relationship between people and the wider environment. Within this theme lie a number of established research centres and groups including:

- Well Engineering Research Group
- Centre for Research in Energy and the Environment **CRE+E**
- Environments for People Research Centre **EfP**.

Director: Professor Susan Craw

Graduate School Leader: Professor Linda Lawton

ideas@rgu.ac.uk

T: +44 (0)1224 262473

www.rgu.ac.uk/ideas

STUDENT SUPPORT

INFOZONE

The INFOZONES, our student information and advice centres, should be your first point of contact for any enquiries regarding student life.

You can pay...

Tuition fees, accommodation instalments, fines, emergency loan repayments, graduation fees.

You can request...

Student status letters, including letters for bank account or council tax purposes.

You can browse info on...

Careers, student finance, postgraduate guides, health, local info, what's on.

You can access services such as...

Careers Consultants, International Student Advisors, Disability Advisors, Counsellors and Enabling Technologist.

For more information, visit www.rgu.ac.uk/infozone

CAREERS CENTRE

The Careers Centre supports students and recent graduates to make informed decisions regarding their career and to assist them in achieving their career.

The Centre is quality assured by the matrix quality standard for information, advice and guidance services.

The following services are on offer and students are actively encouraged to make full use of these:

Bookable appointments and daily drop-in advice sessions; careers information; weekly workshops covering the full range of career planning and job search topics; JOBSHOP, your online opportunities database on course career management programmes, employer events and careers fairs.

For further information on our services, visit:

www.rgu.ac.uk/careers

CHILDCARE

The Treehouse Early Care and Education Centre, managed by Bright Horizons Family Solutions, is situated on our Garthdee campus. This purpose-built facility provides the highest quality care and education for babies and children of three months to five years of age. For more information, visit:

www.rgu.ac.uk/nurseryfacilities

WWW.RGU.AC.UK/STUDENTSERVICES

INTERNATIONAL STUDENT ADVICE, VISA AND IMMIGRATION SERVICE

This service provides international students with a wide range of support and advice, including:

- Extending/renewing Tier 4 student visa/leave to remain
- Advice on Tier 1 (post study work)
- Confirmation of Acceptance for Studies (CAS) to support students' visa extension applications
- Working during studies
- 'Meet and greet' service on arrival at Aberdeen Airport
- Orientation presentations during enrolment
- Organise Police Registration and health screening on campus
- Providing general information on safety, transport and council tax

For more information, please visit:

www.rgu.ac.uk/international

STUDY SKILLS AND ACCESS UNIT

The study skills and access unit can provide you with advice and support on a range of study skills, including:

- Exam preparation and revision
- Maths and statistics
- English language for non-native speakers
- Time and project management
- Presentation skills
- Presenting written work
- Tackling coursework assignments

We can arrange sessions for groups or work one to one depending on your individual needs. For further information, visit www.rgu.ac.uk/studysupport

DISABILITY AND DYSLEXIA SUPPORT

This service supports disabled students to realise their academic potential by working with academic colleagues to improve the teaching and learning environment. It is validated by the Scottish Government to undertake Needs Assessments. We provide advice and practical support to students, applicants and enquirers with disabilities. 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 assisted and enabling technology, and an Educational Psychologist.

For more information call us on +44 (0)1224 262103 or [email disability@rgu.ac.uk](mailto:disability@rgu.ac.uk)

LOOKING FOR A PLACE TO STAY?

Aberdeen is a truly student-focused city, where you will meet people from all over the world. That's one reason why studying at Robert Gordon University is such a rewarding experience.

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 is en-suite, whilst the remainder has shared washing and toilet facilities.

The rent you pay generally includes 24/7 high-speed internet access, all utilities, and personal contents insurance. In 2010, rent rates ranged from £84.50 to £102.50 per week. You can have a look at the most up-to-date charges on our website:

www.rgu.ac.uk/accommodation

or you can call us on **+44 (0)1224 262130**

or email accommodation@rgu.ac.uk

Applications

Applications normally open around mid to late April and you can make bookings for University accommodation 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.

Private sector accommodation

See our website under 'Alternative Accommodation' for links to www.rgustudentpad.co.uk and other advertising sites for private flats/rooms. Prices in the private sector start at around £80 per week (excluding bills).

Adapted accommodation

Our Student Accommodation Service has a number of adapted flats. If you have specific requirements for adaptations or equipment, you should contact the Accommodation Services directly to discuss your requirements on **+44 (0)1224 262130**

Need 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

WOOLMANHILL FLATS

City centre location

Number of residents: 736

Room types: 600 standard rooms, 136 en-suite

ROSEMOUNT HALL

City centre location

Number of residents: 146

Room types: 48 standard rooms, 98 en-suite

ST PETERS HALL

Off King Street, 15-20 minutes' walk from centre

Number of residents: 149

Room types: 78 standard rooms, 71 en-suite

LINKSFIELD HALL

Off King Street, 25 minutes' walk from centre

Number of residents: 128

Room types: 44 standard rooms, 84 en-suite

DON STREET

Off King Street, 35 minutes' walk from centre

Number of residents: 168

Room types: mainly standard

Car parking

All accommodation listed above have permits available to residents, charge applies.

In addition to the sites listed above, we also have some high quality accommodation available on a 50-week basis at Ardmuir Properties which are located in the King Street area. We are also able to offer a variety of small University-leased properties known as Unihomes, and further details about these are available on our website.



OUR CITY

ABERDEEN CITY CENTRE MAP



- | | | |
|------------------------------|--------------------------------|---------------------------------|
| 1 Arts Centre | 13 Maritime Museum | 25 <i>The Tropiero</i> |
| 2 Art Gallery | 14 Music Hall | 26 Thistle Hotel |
| 3 Bon Accord Shopping Centre | 15 Premier Travel Inn | 27 Trinity Shopping Centre |
| 4 <i>Braided Fig</i> | 16 Public Library | 28 Aberdeen Douglas Hotel |
| 5 Bus Station | 17 Railway Station | 29 Travellodge Hotel |
| 6 <i>Café 52</i> | 18 City Centre Campus | 30 <i>Pizza Express</i> |
| 7 <i>Cinnamon</i> | 19 <i>Rustico</i> | 31 Union Square Shopping Centre |
| 8 Ferry Terminal | 20 <i>Pizza Express</i> | 32 Woolmanhill Accommodation |
| 9 Galleria Shopping Centre | 21 St Mary's Cathedral | 33 St Nicholas Kirk |
| 10 <i>Howies</i> | 22 St Nicholas Shopping Centre | i Tourist Information |
| 11 <i>La Tasca</i> | 23 His Majesty's Theatre | P Parking Facilities |
| 12 <i>Lemon Tree</i> | 24 The Academy Shopping Centre | ■ Building of Interest |
| | | ■ Restaurant |
| | | ■ Hotel |

OUR CAMPUS

CITY CENTRE CAMPUS

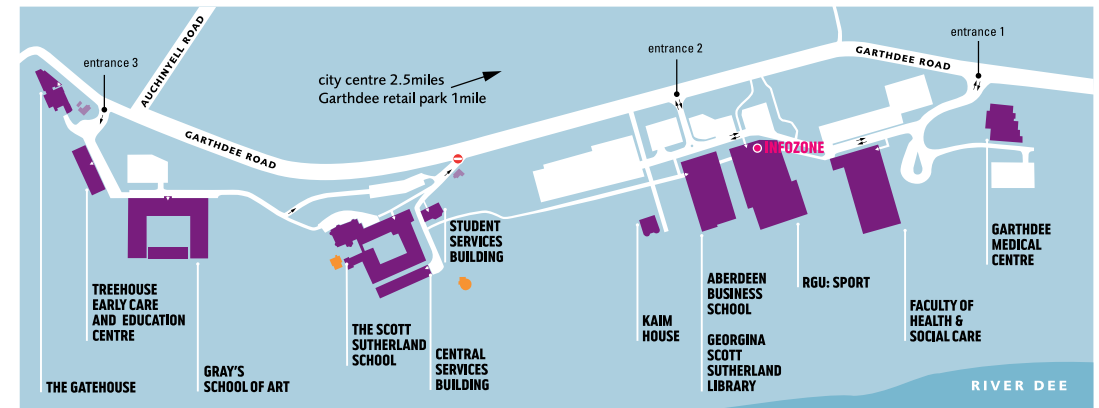


We are based on two campuses – the City Centre campus and Garthdee campus.

Right in the heart of Aberdeen is our City Centre campus which is home to the Schools of Engineering, Computing, and Pharmacy and Life Sciences. Here you will also find the University's Student Union.

Sat Nav Postcodes	
Schoolhill	AB10 1FR
St Andrew Street	AB25 1HG

GARTHDEE CAMPUS



Situated alongside the River Dee, our Garthdee campus is home to Aberdeen Business School, The Scott Sutherland School of Architecture and Built Environment, Gray's School of Art, the Faculty of Health and Social Care and RGU: SPORT.

Sat Nav Postcodes	
Gray's School of Art	AB10 7QD
The Scott Sutherland School of Architecture and Built Environment	AB10 7QB
Aberdeen Business School	AB10 7QE
Faculty of Health and Social Care	AB10 7QG

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DISCLAIMER

This guide is intended as a guide for applicants for courses delivered by Robert Gordon University. In compiling it, the University has taken every care to be as accurate as possible, and the information in this guide is correct at the time of going to print, but the guide must be read as subject to change at any time and without notice.

The University undertakes to make every reasonable effort to provide the teaching and academic facilities necessary for applicants' programmes of study. However, the University reserves the right, if such action is considered to be necessary, to make variations to fees and/or to vary the content or delivery method of any course at any time. In addition, the University may, at its sole discretion, discontinue or amalgamate any course(s). In these rare cases, the University will notify applicants as soon as possible and reasonable steps will be taken to provide a suitable alternative to a discontinued course.

EQUAL OPPORTUNITIES

No discrimination is made on the grounds of race, sex or creed when considering applications for places on courses. All members of the University are responsible for helping to ensure that you do not suffer any form of sexual or racial harassment and that you are encouraged and supported in any legitimate complaint.

CREDITS

Designed by www.artdepartment.co.uk

Photography by Ray Smith Photography and Martin Parker at Robert Gordon University.

Printed by J. Thomson Colour Printers.

Robert Gordon University, a Scottish charity registered under charity number SCO13781.

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