



WE'RE A **GLOBAL** UNIVERSITY

Over 24,000 students live and study at Queen's. Over 92 countries are represented globally. We also employ more than 650 international staff drawn from over 70 nationalities.



QUEEN'S IS
**LIKE NO
OTHER**

About Queens University Belfast

www.qub.ac.uk

Queen's University Belfast is a public research university in Belfast, Northern Ireland, United Kingdom. The university received its charter in 1845 as Queen's College, Belfast and opened four years later, together with University of Galway (as Queen's College, Galway) and University College Cork (as Queen's College, Cork).

It is one of the leading Universities in the UK and Ireland with a distinguished heritage and history. It is ranked 198 in the Top 200 universities in the world (according to Times Higher Education World University Rankings 2023.)

The University offers approximately 300 academic degree programmes at various levels. The university is a member of the Russell Group of research-intensive universities, the Association of Commonwealth Universities, the European University Association, Universities UK and Universities Ireland. The university is associated with two Nobel laureates and one Turing Award laureate.



About PSGIAS

PSG Institute of Advanced Studies, an institution under PSG group offers opportunities for international education. In order to make the International Education at affordable fees, PSGIAS has entered into collaborations and signed a number of MoUs with various Universities under which the major part of study is undertaken in India. Currently under academic collaborations with Universities of USA, Germany, Australia and UK the joint academic UG / PG programs in Engineering, Business and Fashion are offered.

B Eng in Mechanical Engineering

Overview

Mechanical engineers apply skills and knowledge in maths, science and software to design and manufacture innovative, efficient and reliable technology at an optimised cost. Mechanical engineers are at the forefront of sustainable solutions for a better world in the 21st century. Examples include the next generation of environmentally friendly materials (e.g. bio-based polymers) and devices for renewable energy sources (e.g. wind turbines). Mechanical engineers are involved in the design, manufacture and recyclability of most products: from mobile phones, to medical devices to Formula 1 racing cars. This course develops the technical, personal, interpersonal and professional skills necessary in mechanical engineering.

Degree Highlights

We put emphasis on hands on, project based learning, and invest heavily in our state-of-the-art facilities and flexible project spaces to support this activity.

Global Opportunities

The School offers extensive opportunities to gain valuable overseas experience, either during the summer vacation or by taking a year out from the degree programme. We participate in the IAESTE and Turing Student Exchange programmes, which enables students to obtain work experience in companies or study at universities throughout the world. The Study USA Initiative offers students after Stage 2 the possibility of studying for a year at a college in the USA, providing an excellent opportunity to gain familiarity with international business techniques. Our employability programme supports these activities as well as providing help and advice with preparation of CVs, interview skills and acting as a point of contact for the duration of placements.



Professional Accreditations

Both the BEng and MEng degrees are accredited by the Institution of Mechanical Engineers (IMechE).

Industry Links

The School has strong links with both local engineering employers such as Spirit AeroSystems, Caterpillar, Sensata, and Collins Aerospace and international engineering employers such as Jaguar Land Rover, Lotus, McLaren F1, Michelin and Rolls Royce, Glaxo Smith Kline (GSK).

The curriculum is heavily informed by industry representatives who sit on an advisory board within the School.

Career Development

Students have the opportunity to gain a place on the Engineering Leadership Programme and a range of Employability Development workshops.

World Class Facilities

The School has a wide range of high end workstations, experimental facilities and state of the art engineering CAD and analysis software to support aerodynamics, structures, materials and manufacturing design teaching.

Internationally Renowned Experts

The School has an international reputation for its contributions to the development of engineering education by playing a leading role in the Conceive, Design, Implement Operate (CDIO) initiative.

All staff are international renowned experts in their field of research enabling students to learn about state of the art developments in topics such as composites, simulation, renewable energy, biomaterials and manufacturing.

B Eng in Electrical and Electronic Engineering

Overview

In a world where sustainable energy, smart home technology, the Internet of Things and even self-driving cars are a reality, studying Electrical and Electronic Engineering offers students immeasurable potential opportunities. The advances in Electrical and Electronic Engineering are so great that every part of 21st Century life is improved by them.

As a result, Electrical and Electronic Engineering is one of the broadest and impactful exciting engineering disciplines on offer at Queen's University. The degree programme covers a wide spectrum of topics, from micro-electronic chip design and manufacturing to power generation and distribution. Rapid advances in fields such as telecommunications, computer firmware, hardware and networking, medical electronics, security, control and robotics and renewable energy systems are also reflected in the course structure.

Globally there is a critical shortage of experienced and talented engineers. This means that Electronics and Electrical Engineering graduates have excellent career prospects across a broad range of sectors.

At Queen's we work closely with future employers to enhance these career prospects and placement experiences are embedded into the course. This allows students to engage with and learn from real world challenges from day one. This combination of academic theory and application forms a core part of the curriculum and vastly improves our graduate employability rates.

Degree Highlights

Electrical and Electronic Engineering at Queen's is ranked in the top 10 in the UK for research

Career Development

Students may undertake a year's paid placement in industry and there are currently lots of companies to choose from. Examples of companies where our students have spent their placements include BT, Sensata Technologies, Andor Technology, NIE Networks, BAE Systems, Atkins, Microsoft and Seagate. Students may also gain summer work experience through the IAESTE international exchange programme. Canada, Croatia, Hong Kong, Thailand and Malaysia are just some of the countries where our students have been to through this Scheme.

Internationally Renowned Experts

Electrical and Electronic Engineering at Queen's is ranked in the Top 10 in the UK for research, with 93 per cent of research rated as either 'World-leading' or 'Internationally Excellent' (REF 2014). Students therefore benefit from research-led education and the opportunity to undertake final year projects related to cutting edge technologies.

Student Experience

Queen's is one of only nine UK universities involved in the prestigious IET 'Power Academy' scholarship scheme, which each year provides scholarships from the fourteen industrial partners to students on the BEng and MEng degrees. The industrial partners involved in the Power Academy Scheme – examples include NIE Networks, Rolls Royce, National Grid, Network Rail, London Underground, Mitsubishi Electric and BAE Systems. Other companies, such as Sensata, Civica and Caterpillar, also sponsor students on these courses. For further information, visit the School Website.

<http://www.qub.ac.uk/Study/Course-Finder/UG/2016/ElectricalandElectronicEngineering/H600/>

B Eng in Aerospace Engineering

Overview

Aerospace Engineering is at the cutting edge of technology, understanding and applying scientific principles to the design, development and service of some of the most technologically advanced engineering products in the world, ranging from commercial aeroplanes and helicopters to spacecraft and Unmanned Aerial Vehicles. Aerospace engineers will be pivotal in addressing the future challenges of the aerospace industry related to the environment (e.g. minimising noise and pollution) and sustainability. With the ability to succeed in diverse and challenging situations, aerospace engineers are naturally versatile, opening up a wide range of career opportunities, and our graduates can be found in leading private and public sector companies worldwide.

Degree Highlights

We put emphasis on hands on, project based learning, and invest heavily in our state-of-the-art facilities and flexible project spaces to support this activity.

Global Opportunities

The School offers extensive opportunities to gain valuable overseas experience, either during the summer vacation or by taking a year out from the degree programme. We participate in the IAESTE and Turing Student Exchange programmes, which enables students to obtain work experience in companies or study at universities throughout the world. The Study USA Initiative offers students after Stage 2 the possibility of studying for a year at a college in the USA, providing an excellent opportunity to gain familiarity with international business techniques. Our employability programme supports these activities as well as providing help and advice with preparation of CVs, interview skills and acting as a point of contact for the duration of placements.

Professional Accreditations

Accredited by the Royal Aeronautical Society

Industry Links

The School has strong links with industry in the form of collaborative projects and student placements. The curriculum is heavily informed by industry representatives who sit on an advisory board within the School.

Career Development

Students have the opportunity to gain a place on the Engineering Leadership Programme and a range of Employability Development workshops.

All of Aerospace Engineering degrees come with the option of a sandwich year in industry. You can spend up to 12 months getting hands on experience of a real engineering environment with a relevant aerospace company.

World Class Facilities

The School has a wide range of experimental facilities to support aerodynamics, structures, materials and manufacturing teaching. It also operates a flight simulator and runs a week long annual flight laboratory course.

B Eng Computer Engineering

Overview

Computer Engineering is a dynamic and collaborative degree programme; combining academic thought with practical application. Computer Engineers make the impossible possible. They challenge conventional processes and look beyond what exists towards what comes next.

From everyday systems, like games consoles and mobile phones to advanced systems for surveillance and medical devices, the modern world is made possible by the devices you will be taught to understand and develop during the Computer Engineering undergraduate programme. Additionally, Computer Engineering is one of the few research-led degrees in Queen's which includes the design of both electronic hardware and software.

As a Computer Engineering graduate you can not only design the physical hardware but also write the software to run it. Through our diverse network of industry links you begin learning from prospective employers from day one. Industry placements, company-sponsored hackathons and project challenges are a core part of the curriculum and vastly improve our graduate employability rates.

Degree Highlights

Industry Links

We regularly consult and develop links with a large number of employers including, for example, Asidua and Schrader Electronics, who provide sponsorship for our students as well as Kainos and Liberty IT who are members of the employer liaison panel for the course.

Career Development

Graduates in Computer Engineering are highly sought-after locally, nationally and internationally. Graduates of this degree may apply for jobs in software, electronics or those combining both. There are excellent, well-paid career prospects across a wide spectrum of positions: design; research; development; production; marketing and sales in industries such as avionics and space; telecommunications and broadcasting; connected health and medical electronics; consumer electronics and gaming; computing and software; embedded systems and electronic security.

World Class Facilities

The School of Electronics, Electrical Engineering and Computer Science has a world-Class reputation for research and provides excellent facilities, including access to major new research centres in Secure Information Technologies (CSIT), Electronics, Communications and Information Technology (ECIT) and Sonic Arts (SARC).

Student Experience

Scholarships: students may be eligible for scholarships, eg the Schrader Electronics Scholarship and the Civica Scholarship which support at least one student each per year from across a range of the School's subject areas. Both scholarships are worth up to £25k each (see the School website for further information).



Student Life

There's something for everyone

There are academic clubs that you can join that relate to degree programmes and give you a chance to gain more experience in the field of your desired career. There are also extracurricular clubs that will allow you to explore your creative side. There is a club for almost every type of student!

You can even start your own club

If there isn't a club you like, you can even start a new club if you have enough people interested. One advantage of joining a club is that you can gain experience that you can add to your CV. If you're able to start a club or be involved running a club (president or vice-president, etc.), this can count toward something called DegreePlus. DegreePlus is basically formal recognition of your extracurricular activities which will help employability in your future career.

Degree-related Clubs and Societies

For those that would like to join a club or society that is related to their degree, there are many options. For example, the Economics Society, the Chemistry Society, History and Nursing Societies to name a few. There are also clubs that focus on certain aspects of a degree such as the Surgical Society (Scrubs) or the Cardiology Society for Medicine.

Charitable and International Societies

Anyone who wants to get involved in more charitable work has options such as Amnesty QUB, Friends of Médecins sans frontières and Project Zambia to name a few. There are options for international students as well such as the Canadian and American Students Association, the Malay Club, the Chinese Students' Association and the African and Caribbean Society and the Singapore Society to name some of them.

When I joined Queen's, I was surprised as to how broad the clubs were, there was always something for everyone! I was really interested in joining something a bit closer to my degree, so I decided to join Scrubs. I was able to attend lectures given by specialist in certain surgical fields and ask them questions about career options. I was also able to attend a few workshops on suturing which was very exciting! I had other friends which joined different sports clubs like basketball or badminton and creative clubs like the writing or music societies.



Student Accommodation

Suitable accommodation for students are provided in partnership with the external provider. All our accommodation provide following: high speed WiFi, water, electricity, heating, hot water, contents insurance, 24/7 maintenance team and full social programme and support. Accommodation is self catered.

Placement opportunities

Opportunities exist for work placements, industry-led programmes and ground breaking research projects. 94.4% of Queen's graduates are in employment or further study within six months after graduation.

Eligibility for admission to the course

A pass in Plus 2 examination from a recognized board with Mathematics, Physics and Chemistry with good academic credentials along with other language subjects. or a 3 year diploma in the concerned discipline with more than 80% marks.

Students should clear the first 2 years of study at PSGIAS with a CGPA of more than 3 out of 4 to proceed to Queens University along with a TOFEL score of more than 80 out of 120 or an IELTS score of more than 6 and not less than 5.5 in any category.





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