ELECTRONIC & ELECTRICAL ENGINEERING

SCHOLARSHIPS

At the Heart of Everything

Powering the concert
Digital sound and vision
Smartphones to capture the moment
Computer systems to share it with friends
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ELECTRONIC & ELECTRICAL ENGINEERING
At the Heart of Everything

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This past academic year has been a very successful one for the Department of Electronic & Electrical Engineering. Highlights include securing two EPSRC Centres for Doctoral Training in Wind & Marine Energy, and Future Power Networks & Smart Grids, Synaptec – one of our spin-out companies being awarded Best University Technology at the 2014 UK Energy Innovation Awards, and best of all, our students giving us a 94% overall satisfaction rating in the National Student Survey (NSS) 2014 – confirming that they believe the education, experience and opportunities we provide, are first-class.

Ensuring our students fulfil their potential is our priority. We aim to help them make the most of their time with us, through our research-informed teaching programmes, work experience and overseas study opportunities, and supportive learning environment. Our strong links with business and industry enable us to offer our students access to one of the UK’s largest departmental scholarship programmes. We have been hand-picked by several leading global organisations to participate in their sponsorship schemes and are the only department in Scotland to be included in the IET Power Academy. Annual bursaries, work placements and internships are all available and over 200 students currently benefit from these. Our programme also allows students to engage directly with future employers during their degree, enhancing their career prospects, and giving them a head start in today’s competitive job market.

Our Department has a long and proud track record of producing high calibre, in-demand graduates and last year was no exception - 95% had jobs within 6 months of finishing their studies. Many have gone onto hold senior positions in engineering and technology based organisations, ranging from well known locally based companies including ScottishPower, Thales and SSE, to international corporate leaders such as Intel, Google and MathWorks.

This publication highlights our scholarship programme and the opportunities it offers, by featuring a few personal accounts from students who have experienced it first hand and reaped the rewards.

If you are interested in the Power Academy, or having a work placement with Jaguar Land Rover, then read on!

I wish to thank all of our industry and professional institution partners whose continued engagement and generosity allow the Department to offer the very highest standards of support and best student experience possible.

Professor Bob Stewart
Head of Department
Life at Strathclyde
Founded in 1796 as “the place of useful learning”, the University of Strathclyde combines academic excellence with social and economic relevance. Through innovative teaching methodologies and pioneering research, the University delivers a globally relevant education, ensuring a first class student experience and producing graduates who are ready for successful careers.

Located in the heart of Glasgow, Strathclyde is one of the largest university’s in Scotland welcoming more than 16,000 students from 100 nations. It has four faculties: Engineering, Science, Business School, and Humanities, Arts and Social Sciences.

The Department of Electronic & Electrical Engineering is based in the Faculty of Engineering - the largest centre of engineering expertise in Scotland, with an international community of over 5,000 students from 90 nations.

Study & Learning

Our high quality teaching and learning environment and state-of-the-art student facilities are designed to give you the best possible University experience.

Our Information Services Support is working towards a Digital Campus, and students currently enjoy access to over 1,500 campus PCs, more than 35 computer labs open 24/7, and free campus-wide network connectivity. There are personal student email accounts, an Online Resource Centre, student web portal and mobile phone app allowing students to access their information on the go, and MyPlace, our virtual learning environment.

Our newly refurbished Library, with its extensive wi-fi zones and areas of fixed computers, holds over one million print volumes, as well as over 540,000 electronic books and 38,000 e-journals that can be accessed 24/7 from any suitably enabled computer.

The Study Skills Service is available to help you enhance your academic performance, offering support with presenting and writing skills, critical analysis and evaluation, understanding feedback and exam preparation. One-to-one or small group sessions are available. If you are an international student and want to improve your English language skills, you can benefit from up to 4 hours per week of free tuition.

The English Language Teaching (ELT) offers a wide range of pre-sessional and in-sessional classes, support and advice to all non-native English speakers.

Student Support

While starting university, meeting new people and living in a new city is exciting, it can be scary and you may need a helping hand to settle in. We’re here to support you during your studies and have a range of services, advice and staff to ensure you are happy and make the most of your time with us.

Our Information & Advice Team provides advice, guidance and information on all issues associated with student life – welfare, academic, immigration and personal.

Our Student Financial Support Team offers support to students and applicants on current funding arrangements, those who encounter financial difficulties during their study and manages our Discretionary Fund, Childcare Fund and Emergency Aid.

The Chaplaincy provides opportunities for those of all faiths and none, to socialise, access support and engage in spiritual reflection and personal prayer.

Our Disability Service offers information, advice and assistance for applicants and students with disabilities. The Service can help you identify effective strategies, assistive equipment or software, facilities or services to support you during your studies.

Student Counselling is a free and confidential service which aims to assist students in dealing with personal or emotional difficulties affecting their studies. The service offers short-term, individual counseling sessions and can help with a range of problems.

The Student Health Service aims to promote positive health and well-being by providing information and advice on looking after yourself, support with health-related issues and assistance in accessing appropriate NHS services and professionals.

Our Careers Service is here to help with all aspects of your career – whether it is a part-time job, internship, work placement or you want to take advantage of the range of summer, volunteering or extra-curricular activities that will provide added impact to your CV after graduation. They can help you identify career paths that suit your qualification, experience, skills and personality, and offer guidance with job search, CV development and interview techniques.
Student Life

Accommodation - Student residences are located in the campus village, just minutes from University teaching buildings and all enjoy excellent access to student facilities, including the library, Students Union and Sports Centre, as well as Glasgow’s shops, cafes and cultural scene.

Flats are self-catering and students have their own single room, some en-suite, with shared kitchen, dining and living areas. There is free high speed internet access in all rooms, TVs are provided in the communal areas and a dedicated Residence Services Team is on hand all year round.

Are you interested in sports? Our Centre for Sport and Recreation caters for all tastes. It has a swimming pool, cardiovascular suite with over 70 exercise machines, weight training areas, sports hall with badminton, squash courts and all major indoor games, fitness classes and playing fields for most outdoor sports. It also manages the University’s Elite Sports Bursaries and our Golf Fund supported by the Royal & Ancient Foundation.

The Sports Union is one of the best ways to get involved with University life. It has 47 clubs to choose from, ranging from aikido to archery, sailing to skydiving, tennis to trampolining. For the first two weeks of the year, you can take part in all of these clubs for free, so there’s no excuse not to try sport.

The Students’ Union is THE place to meet and make new friends. It is based on John Street in the heart of the campus, and as well as being home to several bars, restaurant and café, it runs 150 affiliated clubs & societies, operates the Student Media Centre, where you can get involved with University radio, its student newspaper, the Strathclyde Telegraph or join the Strathclyde Film Society.

Freshers Week

Nine days of jam-packed fun for all new students! Access to clubs, sports fairs and music events to international student activities...find out from Facebook what’s going on.
Strathclyde has a fantastic sports centre, which I work out at nearly every day in the gym. The staff are friendly and helpful, and the equipment is second to none.”

Yanyi Sun, China
MSc Electronic & Electrical Engineering
Discover **Scotland**.... and you’ll find a country combining stunning natural beauty with stylish cities, a thriving cultural scene, and a dramatic and colourful history.

The breathtaking scenery of the Highlands provides a great rural retreat, with castles and lochs to explore. You can jump on a ferry and island hop to the unspoilt Outer Hebrides - Lewis & Harris were recently voted the best island in Europe. Or why not get your boots on and admire the magnificent views of Loch Lomond and Glencoe as you trek along the West Highland Way.

Alternatively, if it’s urban life you crave, Scotland’s towns and cities boast great nightlife, shopping, culture and entertainment.

Edinburgh, the capital city, is 45 minutes on the train from Glasgow and is home to Edinburgh Castle, the world’s largest arts festival (the Edinburgh Festival Fringe), and the Scottish Parliament. Sherlock Holmes and Harry Potter were created there, and book lovers flock to the city for the annual International Book Festival.

Scotland is also a sporting nation, with many adrenaline-packed activities on offer. As well as being the home of football and golf, you can hone your mountain-biking skills at the Commonwealth Cathkin Braes Trails, white-water raft near Fort William, or do cycling and sailing to name but a few. Winter sport lovers don’t need to wait for snow, as Glasgow’s Snow Factor is home to the UK’s largest indoor ski slopes.

Whether it is heritage, arts & culture, music, food or drink, Scotland caters for all tastes, and with Glasgow as a base, you are perfectly placed to explore everything it has to offer.

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“Glasgow is a great and friendly city to live and I am proud of each and every moment spent here. I was a Volunteer Assistant Vision Engineer for the badminton in the 2014 Commonwealth Games. Being based in the city meant I could also travel to other beautiful places like Loch Lomond and Stirling.”

**Siddhesh Giri, India**  
MSc Electronic & Electrical Engineering

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**Lonely Planet included Scotland at No 3 on its list of places to visit in 2014**
Glasgow is Scotland’s largest city and the University of Strathclyde sits at its heart. A major player in the energy, electronics and creative industries, the city is renowned for its architecture, trendy clubs and restaurants, diverse cultural scene and the best retail experience in the UK, outside London.

There is a thriving arts and cultural scene, with a year-long calendar of festivals and more than 20 internationally acclaimed museums and galleries, most of which offer free entrance. It is home to Scottish Opera, Scottish Ballet, the BBC Scottish Symphony Orchestra, and the National Theatre of Scotland.

A UNESCO world city of music, Glasgow has been dubbed “Europe’s Secret Capital of Music” by Time Magazine. The city is home to a number of international music events, including the MOBO Awards, Celtic Connections and the World Pipe Band Championships and hosts on average 130 events each week, many of which are within walking distance of the campus.

In 2014, Glasgow hosted the Commonwealth Games and became a festival city. Purpose-built venues, live big screen sites, and visitors from 71 countries ensured a carnival atmosphere, and contributed to some truly unforgettable sporting moments.

Although Glasgow buzzes with life, with 70 parks to explore and the Scottish countryside only a short drive away, there are plenty of opportunities to unwind. Compact and easy to travel round, the city has excellent transport links to the UK, EU and overseas, with London only an hour’s flight away.

Glasgow’s diversity, friendliness and quality of life make it a prime location to live, work and study.

Glasgow and the Scottish people have made me feel at home by being very friendly and helpful. Three words describe my experience as an MSc student at Strathclyde University - challenging, inspiring and exciting.”

Nurhazwani Zamli, Malaysia
MSc Electrical Power Engineering w/Business
I chose to study at Strathclyde following a residential week at the University for the Scottish Space School. I was lucky enough to be awarded an F M Bruce departmental scholarship for my first three years and an IET Power Academy scholarship with Northern Powergrid in the last two years. The scholarships helped financially and the Power Academy scheme provided me with valuable industry experience.

Lectures on the structure of the sector combined with technical knowledge gained over the five years of my course prepared me well for my chosen career in the power industry.

My time at university provided me with a wide range of skills. It gave me confidence in communicating with people from all walks of life and strong problem-solving abilities developed when I was a class representative.
We are renowned as a key provider of electronic and electrical engineering education in the UK and overseas.

If you want a career in electrical power or renewable energy, the telecommunications or digital technology sectors, ultrasonics, Microsystems, photonics, or the industrial control domains, then you should study with us.

We offer a first class education, enhanced with overseas study opportunities, financial support and relevant work experience. Our courses are industry-driven & professionally accredited, designed to equip you with the technical engineering expertise and key project management, communication and leadership skills, needed for today's competitive job market. Our strong links with business allow you to engage with employers as you study and as our 95% graduate employment rate demonstrates, you are ready for highly-rewarding and well-paid careers.

**Undergraduate**

- MEng / BEng Electronic & Electrical Engineering
- MEng Electronic & Electrical Engineering with Business Studies OR International Study
- MEng Electrical Energy Systems
- MEng Electronic & Digital Systems

Taught jointly with the Department of Computer & Information Sciences

- MEng / BEng Computer & Electronic Systems
- MEng Computer & Electronic Systems with International Study

Taught jointly with the Department of Mechanical & Aerospace Engineering

- MEng / BEng Electrical & Mechanical Engineering
- MEng Electrical & Mechanical Engineering with International Study

Apply online at: [www.ucas.com](http://www.ucas.com)
Contact: [eee-ugadmissions@strath.ac.uk](mailto:eee-ugadmissions@strath.ac.uk)

**Taught Postgraduate [MSc]**

- Advanced Electrical Power Engineering - UK’s first 2 Yr MSc of its kind
- Communications, Control & Digital Signal Processing
- Communications Technology & Policy
- Electronic & Electrical Engineering
- Electrical Power Engineering with Business
- Signal Processing
- Wind Energy Systems

Apply online at: [www.strath.ac.uk](http://www.strath.ac.uk)
Contact: [eee-pgadmissions@strath.ac.uk](mailto:eee-pgadmissions@strath.ac.uk)

"Studying for my MSc at Strathclyde has been very challenging and yet exciting. The Department’s staff showed me their commitment not only to academic quality but to students’ welfare as well. I worked with the Industrial Centre for White Space Communications for my summer project, learning about configuration, network set-up and performance – especially for the benefit of developing nations, like my own."

**Muyangwe Mudenda, Zambia**
MSc Electronic & Electrical Engineering
Undergraduate Scholarships

We operate one of the UK’s largest departmental Undergraduate Scholarship Programmes, providing annual bursaries up to £5,000, work experience with company sponsors such as Rolls-Royce, Jaguar LandRover, Xilinx and ScottishPower, and support with graduate recruitment.

Scholarships are available for applicants and students, and details of all the opportunities on offer are highlighted at a Scholarship Seminar held in week 3 of semester one.

In addition to this, each October, we host a Scholarships Fair providing you with the opportunity to meet potential sponsors face to face. You can learn more about the funding and work experience prospects, build useful contacts for the future and develop industry-specific knowledge, through visiting the companies’ exhibitions and presentations.

Royal College Prestigious Awards

These Awards were established to attract the very best International talent, and we have welcomed recipients from China, India, Malaysia and many other nations. Selection is made on academic merit, personal achievements and citizenship.

Up to 3 awards of £3000 each to put towards tuition fees are available for International applicants on any of our undergraduate degrees.

Contact eee-ugadmissions@strath.ac.uk for an application form. Submission deadline is 30 June.

S6 Bursaries

These Bursaries are designed to ensure commitment to academic excellence in the final year of school. Many well-qualified S5 pupils, for a variety of reasons, feel unready for University, opting to undertake a sixth year at school. To encourage them to maintain their high standards in this final year, the Department offers a one-off bursary.

All eligible S6 Scottish applicants, awarded an unconditional offer based on their S5 performance, to any of our undergraduate degrees, will automatically be considered for a bursary. No separate application form is required. Payment of the bursary will only be made to applicants whose S6 results are comparable with their S5 performance. The bursary is paid in October following registration.
Throughout my course, I’ve gained a BP scholarship, which allowed me to buy additional course materials and network with the company - a Saltire Foundation award to undertake an internship with Coherent Inc in Silicon Valley, USA - and for my final year project, worked with Yorkhill Children’s Charity and Morgan Stanley to use technology to make the hospital environment more fun for patients.

I chose Strathclyde because of its reputation for producing industry savvy and highly sought after graduates. I wasn’t disappointed!”

Adeeb Umar
MEng Computer & Electronic Systems, Technology Analyst, Morgan Stanley
Our students are eligible for a range of other awards offered by the University, external professional bodies and the Faculty of Engineering’s Engineering Excellence Undergraduate Scholarship Programme. Details on how to apply for these are outlined below and provided at the Scholarship Seminar & Fair in October.

**Lloyd’s Register Foundation Scholarships**

The Lloyd’s Register Foundation is a charity which supports the advancement of engineering-related education, and funds research and development that enhances safety of life at sea, on land and in the air. Although established as a charity in 2012, our history dates back to 1760 through Lloyd’s Register, a public benefit organisation in the marine and energy sectors. Our department is one of three participating in this scholarship scheme.

A total of 9 awards of £3000 each as a contribution towards tuition fees, are on offer across the three departments. All students in Years 2 – 4 of our undergraduate degrees are eligible. We inform students of when applications can be submitted and selection is based on academic performance.

**Sagentia Scholarships**

Sagentia is a global technology and product development services company with over 27 years’ experience. The company has over 150 scientists, engineers and market experts and is a part of the Sagentia Group; with headquarters in Cambridge, UK and offices in London, Boston, Houston and Dubai. Their clients range from start-ups through to global market leaders in the medical, industrial, oil & gas, and consumer sectors.

Ten awards of £2,500 per annum, with selected paid placements, are on offer and students will be competing with those from other institutions. Check Sagentia’s website at [www.sagentia.com/stembursary](http://www.sagentia.com/stembursary) for details on course eligibility and how to apply.

**The MacTaggart Scott Engineering Excellence Scholarship**

MacTaggart Scott has a long history of delivering key projects to the Naval Defence and Marine Market worldwide. They provide complete solutions to customer needs from analysis of initial customer requirements, innovative design, in-house manufacture, commissioning and through life support.

The company is offering scholarships to high-calibre students in the Faculty of Engineering and we are one of three participating departments. Successful recipients will be assigned a qualified engineer who will coach and mentor them to help them achieve their personal and career development.

Normally one award of £2000 is available and third year students on our Electrical Energy Systems, Electronic & Digital Systems, Electronic & Electrical Engineering, or Electrical & Mechanical Engineering degrees are eligible to apply.

**IET Scholarships**

The IET offers a wide range of scholarships to school pupils, college leavers and existing University students. These include the Belling Engineering Scholarship, BP/ Faraday Scholarship, HND Scholarship and IET Grants. Visit [conferences.theiet.org/achievement/index.cfm](http://conferences.theiet.org/achievement/index.cfm) for further details.
The Wood Group Engineering Excellence Scholarship

The Wood Group is a leading international energy services company which provides a range of engineering, production support, maintenance management and industrial gas turbine overhaul and repair services to the oil and gas, and power generation industries worldwide. Their services are all-encompassing, supporting the full lifecycle of oil and gas, and power generation facilities.

Wood Group currently employs about 43,000 people in 50 countries worldwide and earns around $7 billion in sales.

The company is offering scholarships to high-calibre students in the Faculty of Engineering and we are one of five participating departments.

Normally two awards of £2000 with industrial placement opportunities, project assistance and academic support from company engineering teams are available and third year students on our Electrical Energy Systems, Electronic & Digital Systems, Electronic & Electrical Engineering, or Electrical & Mechanical Engineering degrees are eligible to apply.

ScottishPower Engineering Excellence Scholarships

ScottishPower Retail & Generation employs over 3,000 people within the UK and brings a dynamic set of departments together under one umbrella, all with the desire to deliver outstanding service to our customers, including Generation, Sales, Customer Service, Marketing and Operations.

The Generation Business is responsible for delivering competitive energy from a generation portfolio consisting of coal, gas and hydro-electric power stations. We focus on optimising energy output, maximising efficiency and minimising environmental impacts. We operate 5GW of complex plant across the UK including renewable hydro turbines, combined cycle gas turbines and the third largest coal fired power station in Europe, plus our Daldowie facility, which manufactures fuel pellets from sewage sludge.

Normally two awards of £2000 each with a paid summer placement are available and third year students on all of our undergraduate degrees are eligible to apply.

Royal Academy of Engineering Advanced Leadership Awards (ELAA)

As the UK’s national academy for engineering, the Royal Academy of Engineering brings together the most successful and talented engineers from across the engineering sectors for a shared purpose: to advance and promote excellence in engineering.

The Engineering Leadership Award Scheme was created to help undergraduate students, the engineers of tomorrow, realise their potential and achieve their goals. The £5,000 awards are made to provide carefully planned training and experience over the last three years of study which may not be available at the university, but which will furnish students with the skills and capacity to fast-track their career after graduation.

The number of awards varies annually and students will be competing against students from other institutions. Third year MEng students on any of our undergraduate degrees are eligible to apply. Apply online at www.engineeringleadershipsawards.org.uk

RUK Scholarships

For students from England, Wales and Northern Ireland (RUK - Rest of the United Kingdom) that choose to study at Strathclyde, scholarships and financial support packages are available to help with academic and living costs. Further information is available from the Student Financial Support Team on s.finance@strath.ac.uk
As part of the Power Academy, I completed three summer placements within ScottishPower. These gave me invaluable insight into the mechanics of the power industry, as well as allowing me to apply the skills I’d learned in university to practical real-world problems.”

**Euan Morris**
MEng Electronic & Electrical Engineering w/Business Studies
The Institution of Engineering and Technology (IET), with more than 150,000 members in 127 countries, is one of the world’s leading professional societies for the engineering and technology community.

Its Awards Programme rewards and celebrates excellence and innovation - the Power Academy is just one of its prestigious scholarship schemes for undergraduate students.

The **Power Academy** brings together eight leading UK universities, key power sector organizations with support from the IET, Energy & Utility Skills, and National Skills Academy for Power, to deliver an engineering scholarship fund that combines financial support with work placements to students, to address the shortfall in engineering expertise in the power industry.

Between 50 - 60 awards are on offer each year.

**Benefits**
- bursary of £2,200 for each year of study
- help with tuition fees, books & software
- paid summer placements
- industry mentoring through local and national networking events, including the annual Power Academy Seminar

**Company partners**
- ABB
- Atkins Global
- BAE Systems
- Costain
- CCFE
- London Underground
- Mitsubishi Electric
- National Grid
- Northern Ireland Electricity (NIE)
- Northern Powergrid
- Rolls-Royce
- RWE npower
- ScottishPower
- Siemens
- SSE
- UK Power Networks
- Western Power Distribution

We are the only Department in Scotland included in the Academy

All our undergraduate students can apply

2005 – 2013, our students gained the most awards
We offer a selection of scholarships for our postgraduate taught [MSc] degree programmes. These are available for our applicants and students, and offer financial contributions towards tuition fees, course materials and living costs. In addition to these, the University also offers an extensive range of other scholarship opportunities.

Postgraduate Student Awards for Scotland (PSAS)

These Awards are available from the Student Awards Agency for Scotland [SAAS], a Government agency providing financial support to students undertaking degree level courses at University. Scottish and EU applicants may be eligible to apply to SAAS for a PSAS award – a tuition fee loan to help with their fees. Repayment of the loan begins after the student has graduated and is in employment, earning above a fixed threshold.

Scottish & EU students on any our MSc degrees are eligible to apply. Contact SAAS on [www.saas.gov.uk](http://www.saas.gov.uk).

EEE PGT International Excellence Awards

The Awards were established to attract the very best International talent, and we have welcomed recipients from Pakistan, Ethiopia, Nigeria, India and many other nations. Selection is made on academic merit, personal achievements and citizenship.

Awards of up to £5000 each as a contribution towards tuition fees are available for International applicants applying for any of our MSc degrees.

Contact [eee-pgadmissions@strath.ac.uk](mailto:eee-pgadmissions@strath.ac.uk) for an application form. Submission deadline is 30 June.

RUK PGT Scholarships

These scholarships were introduced to attract high-calibre students from England, Wales and Northern Ireland (Rest of the United Kingdom RUK), and support them to pursue their MSc studies in Scotland.

Awards of up to £3000 as a contribution towards tuition fees are available for English, Welsh and Northern Irish applicants on our MSc degrees. Students do not need to apply for this scholarship as the fee deduction will be made automatically when students register for their MSc. For further information, contact [eee-pgadmissions@strath.ac.uk](mailto:eee-pgadmissions@strath.ac.uk).

My RUK scholarship gave me real confidence to pursue my studies in Scotland. For me, it was not only support in paying my fees, but allowed me to focus on my study.”

Chandra Pun, England/Nepal
MSc Wind Energy Systems
The Department gave me the opportunity to study a high quality degree in a specialist area. This scholarship has been a major contribution towards helping me achieve my career goals.”

Georgia Tsigara, Greece
MSc Wind Energy Systems

The Lloyd’s Register award was a moral boost – supporting me during my course, and allowing me to focus on developing advanced knowledge of the power industry.”

Udaibir Singh, India
MSc Electrical Power Engineering w/Business

Lloyd’s Register Foundation Scholarships

The Lloyd’s Register Foundation is a charity which supports the advancement of engineering-related education, and funds research and development that enhances safety of life at sea, on land and in the air. Although established as a charity in 2012, our history dates back to 1760 through Lloyd’s Register, a public benefit organisation in the marine and energy sectors.

Our department is one of three participating in this scholarship scheme.

A total of 6 awards of £3000 each are on offer across the three departments. All students on any of our MSc degrees are eligible to apply. We inform students of when applications can be submitted and selection is based on academic performance.

The Royal College Wind Energy Scholarships

Renewable energy technologies are paramount to the development and growth of the Scottish economy. With the European Wind Energy Association (EWEA) predicting future employment in the wind sector to double to over 500,000 by 2020 and to address the increasing demand for high calibre specialists in this sector, through support from the Scottish Funding Council we are able to offer these prestigious scholarships for our MSc Wind Energy Systems degree.

The MSc builds upon the Department’s extensive expertise in wind energy technologies and is delivered by scholars of our EPSRC Centre for Doctoral Training (CDT) in Wind Energy Systems with extensive collaboration from our key industry partners.

Up to 20 awards covering full tuition fees and a scholarship to help with living costs are available to Scottish and EU applicants.

Applicants must have submitted an application and hold an offer for the MSc degree before they can be considered for one of the awards. Award nominations are made by the Department on the basis of academic merit, professional and personal achievements, as detailed in the MSc application.
University-wide Scholarships

The Aga Khan Foundation Scholarships
These are offered by the Aga Khan Foundation (AKF) to outstanding students from the following developing countries who have no other means of financing their MSc study: Afghanistan, Bangladesh, Egypt, India, Kenya, Kyrgyzstan, Madagascar, Mozambique, Pakistan, Syria, Tajikistan, Tanzania and Uganda. Scholarships are awarded on a 50% grant : 50% loan basis to assist with tuition fees and living expenses only. Applications are available from 1 January each year. Further details at: http://www.akdn.org/akf_scholarships.asp

The Carnegie-Cameron Taught Postgraduate Bursary
This bursary is funded by the Carnegie Trust for the Universities of Scotland. The awards are open to candidates, who are of Scottish birth, descent, or have been continuously resident in Scotland for a minimum of 3 years for secondary or tertiary education purposes. Bursaries are for MSc study only and cover tuition fees. Contact the Student Financial Support Team on s.finance@strath.ac.uk.

Commonwealth Scholarship Commission (CSC)
CSC provides scholarships to Commonwealth citizens for MSc study in the UK and other Commonwealth countries. Applications must be submitted through the Commonwealth Scholarship Agency in the country in which the candidate permanently resides. Tuition fees and a maintenance allowance are paid. Further details are available from CSC at http://cscuk.dfid.gov.uk/apply/scholarships-developing-cw/ and British Council Offices. Contact shona.cameron@strath.ac.uk for further information.

Commonwealth Shared Scholarship Scheme
This is a joint initiative between the UK Department for International Development (DFID) and UK universities to provide support for students from developing Commonwealth countries. Scholarships, covering full tuition fees, living costs and air fares, are available to students of outstanding academic calibre who have not previously studied/lived in a developed country. Our MSc Electronic and Electrical degree is eligible and full criteria can be viewed at http://cscuk.dfid.gov.uk/apply/shared-scholarships/. Contact the Student Financial Support Team on s.finance@strath.ac.uk.

Marshall Scholarships
These finance young Americans of first class ability to study for a degree in the UK. 40 scholarships of up to 2 years duration are on offer to USA citizens each year, with awards made on academic merit, leadership and ambassadorial potential. Submissions for 2015 must be made at http://www.marshallscholarship.org/ by 1 October 2014.

Niger Delta Development Commission (NDDC)
This has established a foreign Postgraduate Scholarship Scheme to equip Niger Deltans with relevant training and skills in nationally relevant and strategic professional disciplines. Further details can be found at http://www.nddc.gov.ng/

Pakistan 50th Anniversary Fund
This aims to provide an opportunity for well qualified but needy Pakistan nationals to pursue a one year MSc in the UK. It was established in celebration of the 50th Anniversary of the Foundation of the State of Pakistan from funds donated by the late Mr Yaqub Ali. Scholarships are provided through the Scottish Pakistani Association.

Candidates must possess a first class degree from a recognized Pakistan university and be in their home country at the time of application. Preference is given to those who have relevant work experience, have not previously studied in the UK and opt for priority subjects such as business, engineering and technology. Tuition fees, living costs, return travel and other expenses are covered. Contact the Student Financial Support Team on s.finance@strath.ac.uk.

Santander Scholarship
This offers an exciting opportunity for applicants from the 12 countries in the Santander scheme; Argentina, Brazil, Chile, Columbia, Mexico, Peru, Puerto Rico, Uruguay, Venezuela, Spain, Portugal and the USA. Candidates will be selected on the basis of their academic ability and the quality of their personal statement. Six awards of £5,000 as a tuition fee discount are available. Further details from the University’s Recruitment & International Office (RIO) on international@strath.ac.uk

Scotland’s Saltire Scholarships
These are funded in partnership by the Scottish Government and the University of Strathclyde. They are open to permanent residents of Canada, USA, India and mainland China, who wish to pursue a one year full time MSc degree in the UK. Candidates must be in their home country at the time of application. Submissions must be made by early June, and several £2,000 scholarships as partial funding towards tuition fees are available. Further details from RIO on international@strath.ac.uk

Strathclyde International Scholarships
These are administered by the University’s Recruitment & International Office (RIO), and are open to international candidates with first class degrees joining any of the University’s one year full time MSc degrees. Applications should be made on-line by the end of May in the year commencing the MSc. Awards of up to £6,000, to provide partial funding towards tuition fees, are on offer. Further details from RIO on international@strath.ac.uk

Tullow Oil Scholarship Scheme
This was established to support students from selected countries in Sub-Saharan Africa and South America to undertake a one year MSc at a UK University. Scholarship packages up to $60,000 cover full tuition fees, monthly stipend, travel and living costs. Applications for 2015-16 entry open in January 2015. Further details from https://tullowgroupscholarshipscheme.org/
We are internationally renowned for our research expertise in power and energy, telecommunications and digital signal processing, ultrasonics, microsystems and photonics, and control systems.

Our research activities are driven by six strategically focused groups, which reflect our breadth, diversity and vision, underpin our teaching and knowledge exchange programmes, and are aligned to key industrial sectors. Our reputation is reinforced through our strong partnerships with government, industry, and key UK and global institutions.

Our vibrant international Graduate School is home to over 230 students, all of whom benefit from direct engagement with world class scholars working at the forefront of their discipline and access to our state-of-the-art facilities.

These include the:

- Power Networks Demonstration Centre (PNDC) - Europe’s only research centre dedicated to the development and demonstration of ‘smart grid’ technologies
- Europe’s only high fidelity control room simulation suite
- 2 EPSRC Centres for Doctoral Training (CDT), offering advanced research study opportunities in Wind & Marine Energy Systems, and Future Power Networks and Smart Grids
- UK’s FIRST Technology Transfer Laboratory dedicated to Ultrasonic Non Destructive Testing and Evaluation research
- Industrial Centre for White Space Communications, focusing on R & D in areas related to the White Space radio pectrum

Opportunities exist for funded MPhil, PhD & Engineering Doctorate (EngD) study within all six research groups, and proposals for these are welcomed all year.

Contact eee-pgadmissions@strath.ac.uk for further information.

Centre for Excellence in Signal & Image Processing (CeSIP)

- CeSIP has world-class reputation for interdisciplinary research across a range of specialisms and conducts application driven research in key industrial sectors. Its four broad areas of expertise span Image and Hyperspectral Image Processing, Signal Processing Algorithms and Applications, MIMO Systems and RF Signals and Systems.

Centre for Intelligent Dynamic Communications (CIDCOM)

- CIDCOM is a centre of excellence focusing on communications technologies and is active in determining applications of optical/wireless techniques in future network evolutions. The Centre’s research profile comprises the three core areas of expertise of Mobile Communications, Broadband Networks and DSP Enabled Communications.

Centre for Microsystems & Photonics (CMP)

- CMP has been internationally active in the field of optoelectronic sensor research for more than 25 years. It specialises in optoelectronic and photonic sensors and systems, active & passive photonic devices, MEMS, microsystems, microfluidics, optofluidics and free-space microphotonic.

Centre for Ultrasonic Engineering (CUE)

- CUE is a centre of excellence in the field of ultrasonic transducers and transducer systems. Globally unique, with unparalleled facilities and expertise, its activities address markets in non-destructive testing, underwater sonar, biomedical imaging and therapy, and industrial process ultrasound, with expertise in ultrasonic transducer manufacture, system prototyping, instrumentation hardware, system simulation and data processing software, and Bioacoustics.

Industrial Control Centre (ICC)

- ICC is an internationally recognised centre of excellence for control theory and application research. Its primary research focus is on the development of system engineering methods and practical algorithms for the control and optimisation of complex and non-linear systems. The main sectors within which ICC operates are power generation plant, water, marine and environmental systems, medical robotics technologies and systems biology.

Institute for Energy & Environment (InstEE)

- InstEE is among Europe’s leading and largest power systems and energy technology university research groups. Its 200 staff and researchers deliver an extensive portfolio of fundamental, strategic and applied research, addressing the key technical, policy and economic aspects of energy systems. The portfolio is underpinned by four core areas of expertise: Advanced Electrical Systems & Power Systems, High Voltage Technology and Electrical Plant Diagnostics, Renewable Energy Technologies, and, Power Electronics, Drives and Energy Conversion. Research in these is augmented within industry-supported centres of excellence such as the Rolls-Royce University Technology Centre, and EDF Energy Advanced Diagnostics Centre.
After graduating with first class honours, I decided to stay in the Department to pursue a PhD. My research project was part of the Highly-Distributed Energy Future Programme spanning Cardiff, Imperial College and Loughborough Universities. As a researcher, I attended symposiums, published at international conferences and networked extensively with academic and industry colleagues. These, along with the training I gained through the Researcher Development Programme, helped shape my career.”

Jianing Cao, China
Analysis Engineer, ScottishPower Energy Networks
There’s a huge variety of exciting sporting, social and cultural activities for you to get involved in, awards and competitions to enter, and career opportunities to explore – and the Department is here to support you whatever you choose to do.

**USM**
University of Strathclyde Motorsport

This student-run club participates in Formula Student (FS), the UK-wide University team challenge to design, build, develop, market and compete as a team with a single seat racing car. The FS team provides students with a real-life exercise in the business elements of automotive engineering. It demands total commitment, lots of late nights, and many frustrations and challenges along the way, but the net result is the development of highly talented young engineers.

The team was very busy this year – participating in the Scottish Motorshow and competing in the FS Track Day at Knockhill Racing Circuit, the UK competition at Silverstone and the German championships on the Hockenheim Ring.

**In 2012, I became involved in USM, the University’s Formula Student team, helping to develop a single-seater race car as part of an international design competition. As head of electronics, I was responsible for creating CAN communications, engine electrics and signal conditions. As part of my IET Power Academy scholarship, one of my summer placements was spent working on the London underground learning about power systems operation, management and control, and how business decisions are made by a major organisation. I also got involved in the department’s sustainable energy project, travelling to The Gambia to install a remote monitoring system I’d developed as part of my Year 4 individual project.**

My course proved very relevant to the modern world, with huge amounts of industry engagement and opportunities to get involved in real world projects – all of these helped me land my dream job! In September I start as an Electronics Engineer at Infiniti Red Bull Racing, where I will be designing sensors, packaging electronics and testing various systems. Working in the fast paced, competitive environment of Formula One will be brilliant, and I can’t wait to get started.”

**Daniel Chakraverty**
MEng Computer & Electronic Systems
Junior Electronics Engineer, Infiniti Red Bull Racing
The Gambia Solar Energy Project

Established in 2006, this award-winning department project provides sustainable energy solutions to rural communities within The Gambia, West Africa.

Thanks to fundraising by staff and students, through the installation of solar panels, electrical and communications systems, the project has provided power to 11 schools, 2 medical facilities and a veterinary clinic. Expeditions to complete installations occur every year and give our students the opportunity to apply their skills in a real-life environment.

Fundraising is a major issue, but we’ve found innovative ways around this – like climbing Kilimanjaro, a sponsored bike ride from Scotland to the Gambia, walking the West Highland Way and competing in the Great Glasgow Run.

StrathSEDS

Established in 2010, this group provides students with a platform to pursue their interest in space. There are weekly meetings, seminars in space technology and a wide spectrum of space related projects to participate in - from designing a micro-spacecraft which will demonstrate new space technologies cheaply, to developing the potential for a new age of air to space transportation.

Student Societies

Our student-run societies organise a wide range of academic and social activities including hotly contested 5 aside football games, pub quizzes and a Chinese New Year & Burns Night - an evening of both traditional and modern entertainment in celebration of Chinese New Year & Robert Burns.

Thomas Parry

MEng Electronic & Digital Systems
Electronics Engineer, Clyde Space

During my degree, I was part of a group that designed, built and tested a satellite de-orbiting technology. Working on this, I experienced the timeframe of a real project – from initial project proposal, planning and manufacture, to testing and deployment - all of which was invaluable for my career.

The Gambia Solar Energy Project

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Elite Athletes

Jessica Liddon, a Year 3 MEng EEE student was amongst nine University student athletes to share in a Scotland-wide sports scholarship programme called ‘Winning Students.’ The Programme, funded by the Scottish Funding Council, offers students funding support and academic flexibility to enable them to balance training with their courses.

Interns@Strathclyde and EPSRC Vacation Bursaries

12 of our students secured paid summer work experience after being awarded student internships and research placements through the Interns@Strathclyde and EPSRC Vacation Bursary schemes. During their 8 weeks, they can look forward to collaborating with academic and industry partners on a range of key ongoing research initiatives.
IT, FINANCE & BANKING
Google, NCR, Tesco Bank & Morgan Stanley

“…”
Waleed Amjad
MEng Computer & Electronic Systems
Technology Analyst, Morgan Stanley

PROJECT MANAGEMENT & ENGINEERING CONSULTANCY
Arup, Atkins Global, Ramboll & AMEC

“…”
Lee McMonagle
BEng (Hons) Electrical & Mechanical Engineering
Graduate Mechanical Engineer, Arup

PROJECT MANAGEMENT & ENGINEERING CONSULTANCY
Arup, Atkins Global, Ramboll & AMEC

“…”
Lee McMonagle
BEng (Hons) Electrical & Mechanical Engineering
Graduate Mechanical Engineer, Arup

TELECOMMUNICATIONS
BT, Nokia, Samsung, CISCO & Motorola

“…”
Muhammad Zaigham Abbas Shah
MSc Electronic & Electrical Engineering
DSP, Pakistan

YOUR CAREER PROSPECTS
2 million engineering professionals are needed by 2020

OUR TRACK RECORD
Last year, 95% of our graduates had jobs before or within 6 months of finishing

YOUR OPPORTUNITIES
In local start-ups to global market leaders across all sectors
**OIL & GAS**
Aker Solutions, Baker Hughes, Petrofac, BP & Conoco Phillips

"My course offered a broad curriculum that gave insight into the electrical engineering world. The variety of project work was enjoyable and challenging and gave me great practical experience - I built everything from a wireless guitar synthesizer to a robot that used Microsoft Kinect to interact with 3D objects."

Mari Kerr
BEng (Hons) Electronic & Electrical Engineering
Graduate Engineer, Aker Solutions

**POWER & ENERGY**
Iberdrola, SSE, ScottishPower Energy Networks & National Grid

"I was awarded the IET Power Academy Scholarship with ScottishPower which not only provided valuable financial support but paid summer placements involving practical projects that developed key skills, experience and industrial contacts - these gave me a real head start for my career as an electrical engineer."

Osman Ali
MEng Electronic & Electrical Engineering
Electrical Engineer, ScottishPower Energy Networks

**AEROSPACE**
Rolls-Royce, GE Aviation & Clyde Space

"I loved the diversity of my course – one day I was learning how to design transistor circuits, the next, how to program for real-time embedded systems. I also had a scholarship, 2 work placements and was part of the expedition team for The Gambia energy project."

Lauren Stewart
MEng Computer & Electronic Systems
Edison Engineering Graduate, GE Aviation Systems

**AUTOMOTIVE**
Jaguar Land Rover & Red Bull Infiniti

"The excellent reputation, opportunity to study aboard and the project-based learning of my degree were the reasons I chose to study it. My scholarship provided financial support and its work placements insight into the life of an engineer. These, combined with my year 4 studies at Clemson University, USA, really impressed my employer."

Thomas Owen
MEng Electrical & Mechanical Engineering
Graduate Engineer, Jaguar Land Rover

**ELECTRONICS DESIGN**
Xilinx, Selex ES & Linn Products

"The International element of my degree meant I was able to study abroad for a year, I chose to go to Nanyang Technological University (NTU) in Singapore. I had a great time there – getting to experience different teaching styles, learn about a new culture and make new friends. It was opportunities like that, along with Strathclyde’s strong reputation for engineering and getting graduates into job, that drew me there."

Fraser Hancock
MEng Electrical & Mechanical Engineering w/International Study
Firmware Engineer, Selex ES

**TELECOMMUNICATIONS**
BT, Nokia, Samsung, CISCO & Motorola

"Securing the Commonwealth Shared Scholarship gave me the opportunity to study in a department renowned for its excellence in innovation and research in my target subject area – digital signal & image processing. During the course, support for English language, student well-being and library sessions all helped me cope with my studies and prepared me for the future."

Muhammad Zaigham Abbas Shah
MSc Electronic & Electrical Engineering
DSP, Pakistan