The cover shows the recently refurbished McEwan Hall.
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Principal’s foreword

The University’s Annual Review always provides a welcome opportunity to step back and take stock of another year in the life of our great institution.

As I prepare to deliver this address, I am struck by the sheer variety and scope of the work that we carry out, thanks to the diligence, dedication and innovation of our staff, students, alumni and supporters.

This year’s edition is no exception, showcasing as it does our influence and impact both locally, nationally and globally.

We live in challenging yet exciting times and at the University we are particularly excited by the promise for the future being delivered by the signing of the Edinburgh and South East Scotland City Region Deal. As a signatory, the University will play a key part in turning this edition of the Review into detail about our plans to make this vision a reality.

We are a truly international university and that is reflected in many ways. In this publication we examine our global outlook using a number of examples with the launch of our Institute for International Cultural Relations, with our efforts to bring computer technology to schools in sub-Saharan Africa, the launch of Talloch Rìoghail, the site of the Old Royal Infirmary.

The University brings much to the articulate life of the Scottish capital and beyond. I am proud that this year we highlight the work of colleagues at the world-famous Venice Biennale with contributions from our distinguished alumnus Rachel Maclean, Edinburgh College of Art, the Centre for Research Collections and the University’s Talbot Rice Gallery.

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After 15 years at the helm, it is gratifying for me personally to reflect on what excellent work we as an institution are in. That is thanks to the efforts of our staff, students, alumni and supporters worldwide. I have with some confidence that the University will continue to go from strength to strength in the years to come.

The quality of our research and innovation at all levels is something that really sets Edinburgh apart. The research projects which our staff and students lead on are both fascinating and inspiring, generating headlines around the world. Here we delve into just two which have been selected from very many: the team from the School of Chemistry which has discovered a new way to recover gold from electrical devices such as mobile phones; and the students working to design and build a futuristic travel system known as the Hyperloop.

The University of Edinburgh

Principal and Vice-Chancellor

Professor Sir Timothy O’Shea
BSc, PhD, FRSE

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£35 million refurbishment of the magnificent Grade A listed McEwan Hall, and our redevelopment of St Cecilia’s Hall and the Pleasance complex – as well as our plans for creating the Edinburgh Futures Institute on the site of the Old Royal Infirmary.

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The University of Edinburgh

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Vision

We deliver impact for society.

As a truly global university, rooted in Scotland’s capital city, we make a significant, sustainable and socially responsible contribution to the world.

Mission

We discover, develop and share knowledge.

As a centre of academic excellence we aim to:
• provide the highest quality research-led teaching and learning;
• challenge the boundaries of knowledge, research and disciplines;
• enable our graduates and staff to be exceptional individuals equipped to address global challenges;
• promote good health, economic growth, cultural understanding and social well-being.
Revitalising a treasured symbol of civic pride

The University’s McEwan Hall is a fine example of its commitment to investing in Edinburgh’s cityscape and heritage.

When William McEwan donated £115,000 to the University in 1886, it was the largest single donation the University had ever received, and it sparked the creation of a magnificent landmark that would host public events and graduation ceremonies for generations to come.

In 2015, the doors to the McEwan Hall were closed to restore the Grade A-listed building back to its original glory. The £35 million refurbishment took place over two years, with the Hall reopening in summer 2017 to the great excitement of students, alumni and friends.

As well as making critical structural improvements, the windows, stonework and frescoes were conserved, and the building was updated to meet modern-day accessibility requirements. While the University made a significant contribution from its own funds, alumni and donors played an important role in this chapter of the building’s story.

For Mr Chris Cox, Vice-Principal Philanthropy and Advancement, the spirit in which the original donation was made, strikes a chord with generous donors today. “William McEwan was the MP for Edinburgh Central and had huge pride in the city and the University,” he says. “McEwan saw universities as places where people from all walks of life could convene. This is as important today as it was then. McEwan was the MP for Edinburgh Central and had huge pride in the city and the University,” he says. “McEwan saw universities as places where people from all walks of life could convene. This is as important today as it was then.

Mr Cox

The response to the campaign was unprecedented, with more than 1,700 alumni from more than 50 countries contributing to the redevelopment. For Mr Cox the participatory nature of the campaign was important. “It was about finding a way in which hundreds, and eventually thousands, of alumni could connect themselves to this historic building, which clearly means so much to so many people.”

Current students were also at the heart of the redevelopment. A competition was held for third-year art students to design the tiles that would recognise donors’ contributions. Inspired by images held in the University’s research collections digital archive, the winning undergraduates – Lizzie Bevington and Despina Petridou – proposed an innovative concept that represented people and ideas moving through the University.

The University’s Art Collections Curator, Mr Neil Lebeter was closely involved in the project and saw the commission of students’ work as being the ideal way for the University to support emerging artists. “As well as thanking our donors in a thoughtful and unique way, commissioning young artists talks to the future, as well as referencing the history of the institution,” says Mr Lebeter. “Lizzie and Despina did an amazing job. To be involved in such a major project was fantastic work experience for them.”

Architectural Conservation students were also given the opportunity to work alongside specialist conservators at the highest reaches of the Hall; learning how to clean and renovate the original murals. Anushka Desuwa was one of the students to take part: “Working on the building helped me to implement the techniques learnt in the classroom,” she says. “It definitely enhanced my experience of studying at Edinburgh. It was an opportunity that I wouldn’t have found anywhere else, and I feel like I’m a part of the fabric of this historic building.”

McEwan Hall is of many landmarks on Edinburgh’s skyline that the University has committed significant investment to restore, maintain and improve. Work is to begin shortly on the Grade A-listed Old Royal Infirmary. The former city-centre hospital was purchased by the University in 2015, after it lay vacant for more than 12 years. Due to reopen in 2021, it will be home to the Edinburgh Futures Institute, creating new teaching, research and public spaces.

The Pleasance complex plays host to a great variety of student societies, as well as becoming a busy hub during the annual Festival Fringe. The University has worked closely with the Students’ Union to improve and extend facilities and maximise space over the past year.

St Cecilia’s Hall – Scotland’s oldest purpose-built concert venue – reopened in May 2017, after a £6.5 million redevelopment. The concert room and music museum situated in the Old Town is open to the public from Tuesday to Saturday, after previously opening at sporadic times, and the renovation has also brought about a lively programme of concerts and events for the local community to enjoy.

“Now we have facilities that match the quality of our collection and expertise of our staff. And the response we’ve had from the local community since reopening has been wonderful.”

The University’s commitment to having a strong relationship with the people of Edinburgh through these visionary yet accessible refurbishment projects fills Mr Cox with optimism. He concludes: “It’s wonderful that the University is investing so much into developing this network of inspiring spaces – giving enormous benefits to our students and alumni – and the city of Edinburgh as a whole.”

Mr Chris Cox
Nurturing cultural relations across institutions

The University is home to a diverse range of cultures and nationalities across student, staff and academic spheres. Launched in January 2017, the Institute for International Cultural Relations aims to bring these groups and cultures together, both in academic and social circles throughout the University and beyond.

The Director of the Institute, Professor JP Singh, joined the University in 2016. A prize-winning author and former adviser to UNESCO, the World Bank and the World Trade Organization, Professor Singh believes a greater interdisciplinary approach to research and collaboration is required, if Edinburgh is to expand the impact of its expertise to a global audience.

“Culture is who we are and how we think of ourselves,” says Professor Singh. “There are many people at the University and beyond who work on different topics but see culture as a lens. The Institute for International Cultural Relations aims to bring these people together and foster research and education in terms of how we think of ourselves across borders.”

For Professor Singh, several things stand out about education in the future: “We will have to solve issues that can’t be categorized by discipline,” he explains. “For example, the refugee influx into Europe is a public health issue, a human rights issue, a legal issue and a diplomatic issue. It will take an interdisciplinary approach to help solve it.”

He also believes that universities must continue to adapt in order to deliver world-leading education and research: “I’ve been living in the US for the past 34 years, but I grew up in a remote area in India. When people came from big universities to lecture to us, we didn’t listen. So I’m always trying to find a way to connect the Institute to all types of communities and people from different backgrounds.”

Professor Singh has been working with a number of international groups to bring 33 cultural experts to Edinburgh for the 70th year of the Edinburgh festivals in the summer of 2017. “The programme was a resounding success,” says Professor Singh. “It really resonated with people. I can’t believe the number of times so many of the Fellows have said that this was one of the most transformational experiences of their life.”

The diverse group included a dancer from Cambodia, the head of the National Theatre of Nigeria, an Australian opera singer, a Malaysian chef, and a magazine editor from Sweden. Over eight days the group met to discuss international cultural relations and specific issues before attending shows at the various festivals.

“We invited cultural activists from around the world, who are strongly connected to their communities, to think about specific cultural issues,” explains Professor Singh. “The experience had a profound impact on many of them and made them think about the world differently. Over the next year, the Fellows will undertake projects of their own choosing, which help them connect their Edinburgh experience with their communities, and of course, they now have a global network that they can rely on.”

The Institute has also been forging close relations with cultural partners. Professor Singh noted the invaluable input of the Fellows programme was one of her first projects in her new role with the Institute: “I had collaborated with a number of people in the University, in my role with Festivals Edinburgh,” explains Professor Liddell. “But when Vice-Principal Dorothy Hart suggested becoming a Visiting Professor I was delighted. The Institute feels like a natural home.”

The individual Global Cultural Fellows came from across the world, clearly with different and distinctive perspectives. They included scholars working on the relationship between terrorism and creative industries; cultural activists from around the world, clearly with different cultural interests and values across nations; and Westminster governments, from the Scottish and British to the US and EU.

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Professor Singh also believes that culture is at the heart of many of the world’s most important issues. Therefore the city, the University and the Institute are ideally placed to bring together individuals, ideals and disciplines of contrasting natures in order to connect research, politics and communities.

The Institute will have the opportunity to explore this concept further as one of several key research groups within the University’s new Edinburgh Futures Institute – a visionary hub where experts can transcend boundaries and join forces in response to global cultural, technological, political, social and managerial challenges.

“The past year in Edinburgh has provided a deeply meaningful and exciting opportunity to make an institutional mark in international cultural relations,” states Professor Singh. “We’ve had great support from the Scottish and Westminster governments, from the Edinburgh festivals and from people all over the world, and to feel that you are really making a difference in the world, as an institute, really resonates so much.”
By developing a new way of recycling gold from electrical devices, researchers in the University’s School of Chemistry are part of wider efforts at Edinburgh to make a sustainable and socially responsible contribution to society.

In 2017, a team led by Professor Jason Love revealed a new way of recovering gold from circuit boards used in electronics including televisions, computers and mobile phones. Methods currently used to recover the precious metal are often inefficient or reliant upon toxic chemicals such as cyanide. Improving these recycling processes could help to cut carbon dioxide emissions and reduce the need for gold mining, a practice harmful to the environment. Seven per cent of the world’s gold is inside waste electronics and of that only 30 per cent is currently salvaged.

“As a society, we need to recognise that we have limited resources and that we can’t keep consuming these if we don’t have a way of returning them back to a useful state,” states Professor Love. “We have to think about how we can develop better ways of recycling, and we’re interested in the chemical aspects of how we do that.”

With an estimated 300 grams of gold present in every tonne of electronics, Professor Love and his team set out to develop a more sustainable and environmentally friendly approach that could allow for greater quantities of gold to be recycled. They formulated a new chemical reagent to use in a process called solvent extraction, which is used widely for the recovery of metals from ores. Compared to other methods such as smelting – which uses extremely high temperatures to separate mixtures of metals – solvent extraction is potentially a very sustainable and environmentally friendly alternative.

“The solvent extraction process has existed for decades but as chemists we’re trying to discover new and better reagents that recover metals more selectively,” explains Euan Doidge, a PhD student in Professor Love’s research group.

Using their new method, circuit boards are first placed in a mild acid to dissolve all their metal parts. An oily liquid containing the team’s reagent is then added, which allows gold to be extracted selectively from the complex mixture of metals found inside electronics.

“Our reagent allows us to recover a very high purity of gold, explains Euan. “Normally, one molecule of reagent binds directly to one metal molecule. Our compound uses a different type of chemistry, and can bind to clusters of gold molecules instead of just one. This means you can use a lot less of it to recover the same amount of gold.”

As a by-product of this research, Euan has enjoyed success in a science communication contest. After winning the University’s 2017 Three-Minute Thesis heat, he was awarded the People’s Choice award in the UK final. This has given him the opportunity to talk about his work at the world-famous Royal Institution, as well as enter into the Three-Minute Thesis international final.

As well as gold, the team is investigating ways of improving the recycling of other precious metals found in waste electronics, such as palladium, platinum, and rare earth elements like neodymium. New reagents could be developed to salvage these and common metals such as copper and tin.

There may also be the opportunity to extract toxic metals such as cadmium and lead, which can cause environmental issues that could, in turn, be prevented. The team is also interested in how chemistry could be used to recover plastics, not currently recycled, from mobile phones.

A big motivation for Professor Love and his team is the concept of the circular economy, which encourages reuse of materials and practising greater resource efficiency. “To develop a circular economy, we cannot waste these valuable resources,” says Professor Love. “If these materials could be recycled at the point of collection, it would provide lots of income to that local area. That doesn’t happen at the moment.”

In theory, the team’s new method could help to facilitate this development, because it can be carried out on a relatively small scale, which could enable local set up. However, in order to make progress on the development of circular economy initiatives, collaboration is essential.

“Our aim is to build a whole theme of work at Edinburgh around urban mining and waste recycling,” explains Professor Love. “To do that we need more expertise in other areas, so we’re working with colleagues in geosciences, engineering and social sciences.”

Professor Love’s team is also working with the organisation Closing the Loop, an Amsterdam-based company that aims to reduce electronic waste by collecting old phones in Africa and bringing them to Europe to be recycled.

This commitment to making a socially responsible contribution to society is echoed across the University. Mr Dave Gorman is Director of the Department for Social Responsibility and Sustainability, which was established in 2014 to underline the University’s commitment to making a significant, sustainable and socially responsible contribution to the world. Mr Gorman believes that the many staff and student-led initiatives at Edinburgh can help it deliver on this strategic ambition.

“Higher education institutions like Edinburgh can play a pivotal role in a transformation to a circular economy,” he states. “The work being done by Professor Love and his team is a great example of the kind of cutting-edge research going on at the University to help bring about the adoption of circular economy initiatives.”
Placing Edinburgh art on the international stage

In May 2017 a deconsecrated church in Venice housed a new work of art by Edinburgh alumna Ms Rachel Maclean, commissioned to represent Scotland at the renowned Venice Biennale.

Ms Maclean’s 37-minute video, entitled Spite Your Face, was the focal point for a project that connected several important strands of the University to the Biennale. It marked a special alignment of students, staff, alumni, Edinburgh College of Art (ECA), the University’s Centre for Research Collections and the University’s contemporary art gallery, all working together with significant external partners – to present on this most global of stages.

At 29, Ms Maclean is the youngest artist to be selected by Scotland + Venice, a partnership run by Creative Scotland, the National Galleries of Scotland and the British Council Scotland. Every two years Scotland + Venice selects an artist that best represents the country’s contemporary art scene.

“Ms Maclean’s video was the focal point of the Biennale,” says Tessa Giblin, the Gallery’s Director. “It was a surprise.”

Ms Maclean’s video, commissioned to represent Scotland at the Biennale, was the focal point for a project, the University and Ms Maclean’s work, The Talbot Rice Gallery. In February 2018, nearly a year after the Venice show, the gallery is planning collaborative shows in Cardiff and Edinburgh with artists they met during the Biennale. The students also had time off to explore the Biennale and to develop their artistic practice. Evenings were spent connecting with representatives from the other pavilions, resulting in screenings, talks and life drawing sessions.

Ms Maclean also appreciates how the experience could offer promising futures for this next generation of artists: “The development programme is fantastic,” she says. “The students I have met who are part of it are really brilliant and have done such an amazing job. I’m so excited for them. I’m looking forward to what they make, and what they do, as a result of the experience. I think there will be an amazing legacy for Scotland and the Scottish art scene.”

The 2017 Venice Biennale experience will certainly live on in the University. The students are planning collaborative shows in Cardiff and Edinburgh with artists they met there. The Talbot Rice Gallery is focusing on commissioning new work and exploring the possibilities of group shows, two defining features of the Biennale. The artist who represented Hong Kong, Samson Young, has been commissioned by the gallery to produce a work for 2019, and Leslie Jones’ Venice work, Tremble Tremble, will be on show in late 2018.

Additionally, the University has purchased the film Spite Your Face to form part of its official Art Collections. In February 2018, nearly a decade after graduating, Ms Maclean will return to the University, and alongside many others, will attend her film’s UK premiere at the Talbot Rice Gallery.

“Being part of Venice placed us on an international platform and inspires us to stay there,” says the Gallery’s Director, Ms Tessa Giblin. “Most people, rightly, talk about the impact Venice has on the artist. But we mustn’t forget the enormous impact it has on the professionals working behind the scenes – the curators, project managers, technicians, marketing people, the publicists, the fundraisers. All those involved, in my experience, have gone through an enormous growth curve.”

Ms Giblin, who joined the Talbot Rice Gallery in 2016, has been involved with the Biennale for the past 10 years. While other colleagues at the Gallery worked on Scotland + Venice, she was also commissioner and curator of the Irish pavilion.

“Working with the artist Leslie Jones, she describes it as ‘the hardest, most rewarding thing’ she has ever done.”

As well as providing an unprecedented platform for the University’s alumni, its gallery and its staff, art students from ECA were also given a unique opportunity to experience the international festival. Scotland + Venice is a Professional Development Programme selected 15 students from across Scotland to invigilate Spite Your Face in Venice. The cohort included five fine art students from Edinburgh. The students stayed in Venice for a month at a time between May and November, working in pairs to manage the venue, Chiesa di Santa Caterina, in the northern Cannaregio district of the city. In addition, they acted as ambassadors for the project, the University and Ms Maclean’s work.

“Because she [Rachel Maclean] came from ECA too, we definitely felt an ownership of the piece, and we felt great when people had a positive response to it.”

Ms Rachel Maclean

I feel that I’ve been lucky. I owe a lot to Edinburgh and Scotland in terms of people having confidence in me when I was young.

Ms Maclean

The students I have met who are part of it are really brilliant and have done such an amazing job. I’m so excited for them. I’m looking forward to what they make, and what they do, as a result of the experience. I think there will be an amazing legacy for Scotland and the Scottish art scene.”

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Stimulating success through cross-Border research

A mood of optimism prevails among Edinburgh’s early-career academics despite Brexit uncertainties.

It is Edinburgh’s global reputation for academic excellence that draws so many early-career researchers to the city; it is the University’s international outlook that convinces so many to stay.

Those who choose to develop their careers here are part of a continuing story, key to the University’s success since its earliest days when European influences first held sway: among them a curriculum taking its lead from Paris; and experimental methods inspired by the Dutch.

It has always been a two-way process. As the University played host to the Scottish Enlightenment’s great flowering of thought in the 18th century, the celebrated French philosopher Voltaire proclaimed: “It is to Scotland that we look for all our ideas of civility.”

This appetite for endeavour that transcends disciplinary, intellectual and institutional boundaries endures to the present day, and in the wake of the 2016 EU referendum result, Edinburgh’s desire to be a leading centre of excellence, open to the world, is undiminished.

For the University, two priorities continue – to maintain the mobility of European staff and to sustain European-funded research partnerships. It is perhaps little surprise then, that in the past year, early-career academics have secured €9 million from the European Research Council’s (ERC) Starting Grants programme.

The successful researchers, based across the University’s three Colleges, are quick to praise a funding scheme that enables ambitious, fundamental work. Among them is Dr Bin-Zhi Qian, Reader and Cancer Research UK Fellow at Edinburgh’s Medical Research Council Centre for Reproductive Health, whose research passion is cancer metastasis – how tumour cells begin to resist current treatments.

“Working across borders is critical for success,” says Dr Qian. “The University has been extremely supportive, helping us to attract excellent scientists. Our thoughts, looking forward, are positive.”

Time is of the essence too for Dr Jennifer Smillie, a Royal Society Research Fellow in the University’s School of Physics & Astronomy, who is drawing meaning from data derived from the Large Hadron Collider (LHC) near Geneva.

The discovery in 2012 of the Higgs boson makes this is a pivotal period for particle physics. The LHC is a discovery machine, designed to shed light on unanswered questions about physics at its smallest scale.

With ERC funding, Dr Smillie can push forward: “With the LHC running, this is time-critical. Collaboration across borders is vital. Brexit may impact recruitment, but the University has been very supportive. I am excited about what lies ahead.”

In the School of Chemistry, Chancellor’s Fellow Dr Michael Cowley is seeking alternatives to costly, toxic metals that underpin much of the chemistry we rely on for things such as plastics, drugs – even Post-it notes. By exploring the structure of new and unusual aluminium compounds, he hopes to devise cleaner, efficient alternatives, collaborating with other research groups.

“Having worked overseas, Dr Cowley knows the value of absorbing different techniques, scientific traditions and schools of thought. This openness is vital: “The University is working to influence policymakers, trying to make it easy for people to cross geographical and scientific boundaries,” he explains. “If we lose this, our science and our society will be poorer.”

Another Chancellor’s Fellow, Dr Alice Street, is all too aware of barriers to progress. Based in the University’s School of Social & Political Science, she is driving to improve the efficiency of rapid, portable diagnostic medical devices in areas devoid of transportation, communication or electrical infrastructure. Working with research partners in Sierra Leone and India, her study will investigate the social, cultural and technical processes involved in developing and using diagnostic tools in settings where resources are limited.

For Dr Street, the ultimate goal is to guide global health policy: “ERC funding provides an opportunity to lead a large-scale, comparative, anthropological study that not only addresses an intractable challenge, but also helps to advance theoretical thinking.”

This approach chimes with that of Dr Kevin Myant, Principal Investigator at the Cancer Research UK Edinburgh Centre, who is seeking to understand how colon cancer spreads, specifically how genetic mutations drive its formation. There has been huge investment in identifying mutations that occur in cancer, but it is unclear which ones cause disease to form and spread. Dr Myant aims to solve the riddle and pave the way for new therapies.

“The ERC provides generous funding for relatively high-risk, high-gain projects that other funders may find too speculative,” he explains. “Projects such as mine, which work across international boundaries, are ideal for this type of funding.”

It sits well too with Dr Sotiria Grek, Senior Lecturer in Social Policy, whose research explores how metrics – standards that measure efficiency, performance and progress – can actively contribute to policy decision-making across national borders, primarily in education and sustainable development. Her new project’s focus will be the complex relationship between international organisations and the production of statistical data. This comparative, transnational research focus has not only defined her career but also Dr Grek’s identity as a European citizen. “I have always considered the ERC more of an intellectual ‘home’ than just another funder. It values interdisciplinarity and nurtures in-depth study – the kind of slow social science that is so needed, yet is so rare.”

Collaboration across borders is vital. Brexit may impact recruitment, but the University has been very supportive. I am excited about what lies ahead.

Dr Jennifer Smillie

Left to right: Dr Alice Street, Dr Kevin Myant, Dr Sotiria Grek, Dr Michael Cowley and Dr Bin-Zhi Qian
On 20 July 2017, the University was one of several signatories to what could be one of the most significant events in its 434-year history.

The Edinburgh and South East Scotland City Region Deal pledged £1.1 billion to fund major infrastructure projects in Edinburgh, the Lothians, Fife and the Scottish Borders. The money will come from the Scottish and Westminster governments and partners in the local authorities, universities and private sector.

The ambition is to make Edinburgh and its surrounding area ‘the Data Capital of Europe’. By developing clusters of activity based upon data science – the collection, organisation and interpretation of large sets of digital information – the University will be key to achieving the City Region Deal’s goal.

“By many ways the University is the glue that holds the whole thing together,” says Senior Vice-Principal Charlie Jeffery, who represents the higher education sector in the negotiations. “We have a vision and capacity for technological innovation that can change and drive the economy.”

“This funding gives us both the opportunity and the huge challenge to deliver on our potential,” says Vice-Principal Planning, Resources and Research Policy, Professor Jonathan Seckl. “It is intended to facilitate necessary and beneficial change in how we do things, how we engage with our city and impact on Scotland and the wider world.”

The University is dedicated to data innovation in both teaching and research. For example, it is home to Europe’s highest-ranking School of Informatics. Its world-class research in machine learning, robotics, computer science and artificial intelligence has spawned some 100 companies in recent years.

More sophisticated use of data allows better understanding and prediction of trends and outcomes. For example, this can already be seen in the recently created Bayes Centre, which will house computer scientists, engineers, mathematicians and industry colleagues working on fundamental computer and data science. Major partners such as Intel and Silicon Graphics are already lined up to move in to the building, on its completion in 2018.

In 2021, the Edinburgh Futures Institute will take up residence in the former Royal Infirmary and will pioneer how data can be used in the creative industries, financial sector, government and education.

The Usher Institute – working on health and social care data to improve care – currently exists virtually but the City Region Deal will give it walls. The National Robotarium – a partnership with Heriot-Watt University – will see advances in robotics, while staff working on the University’s Easter Bush campus will work with environmental, genomics and genetic data, vital for improving agriculture.

“This is moving the University away from the traditional model of buildings in which academics and students mingle, but live their working lives apart from the rest of our city region,” explains Professor Seckl. “It should be where students are rapidly exposed to the working world, to jobs and innovation.”

The City Region Deal will further generate talent through lifelong education in the skills needed for the data-driven economy, a sector that could be worth $2.7 trillion in 2020, according to the International Data Corporation.

“This can’t just be growth that simply benefits those who were already doing well,” states Professor Jeffery. “It must be growth that is available to all. We have developed a strong emphasis on inclusion, making sure everyone across the region has a chance to develop those skills.”

The demand for workers with digital skills in Scotland is 11,000 a year. However, only 4,000 a year are currently being produced. The University is working to ensure that the opportunities of the data-driven economy are available to everyone, at all stages of their career.

“We are looking at skills for the data economy across the life course,” explains Professor Jeffery. “We are looking at everything: how to adapt teacher training from primary school upwards; resources for primary and secondary schools; new forms of cooperation with colleges and other universities; and new ways of supporting on-the-job retraining and upskilling.”

Goals set by the City Region Deal include training 100,000 people to flourish in the data economy over the next 10 years, and the creation of 40,000 to 50,000 new jobs. DataLab, an innovation centre hosted by the University, has an important role to play, offering business development support and training opportunities to both start-up and established businesses.

“In a sense, the City Region Deal is an opportunity to renew that civic tradition on which the University was founded,” says Professor Jeffery. “This university has been in the city, doing great things, for several hundred years combining our strengths with that of the region, to create something new, something very valuable. The City Region Deal has the potential to be one of the landmarks in that centuries-long history.”

Senior Vice-Principal Charlie Jeffery
Cracking the code to supporting technology in African schools

A lack of technology in sub-Saharan African schools has put millions of children at an educational disadvantage. Edinburgh graduate and PhD student James Turing has been working to remedy this through his foundation, the Turing Trust.

Having first visited Ghana in 2009, James was struck by the lack of technology in school classrooms. Since then he has been working tirelessly to repurpose computers for use in schools across Africa, and has also been working to plug the technology gap.

After gaining his MEng in Structural Engineering & Architecture from Edinburgh in 2015, James is now working towards his PhD in International Development. His research focuses on the circular economy in Kenya, which led to the founding of the Turing Trust and his innovative approach to repurposing IT equipment.

"After working in rural African communities for a couple of years, I realised that we weren't able to support as many schools as we would like, with repurposed computers," explains James. "Many didn't have access to traditional on-grid electricity. This led us to establish SolarBerry, which is a solar energy experiment to see what we can do to solve that problem."

In the past year his efforts have not gone unnoticed. He became one of only 18 students to be awarded a grant from the Clinton Global Initiative (CGI) University Innovation Fund. The fund supports effective, high-impact student innovators and entrepreneurs from around the world.

Ms Megan Strawther, Community Engagement Manager for CGI, explains that the funding would come with its urban counterparts and create an equal distribution of digital opportunities. The fund supports effective, high-impact student innovators and entrepreneurs from around the world.

"One of the first steps is getting teachers involved," he continues. "When they get a computer in their school you always find that teachers are some of the happiest beneficiaries. In their free time they can almost be guaranteed to be using the computers and improving their own digital skills, which then trickles down to the students."

For James the innovative aspect of the work is simply spending time with the communities and making sure that what is being done is actually working effectively. "We want to ensure that the computers stay working for the next five years or longer; that's our aim."

James hopes that the work of the Turing Trust will enable people from rural areas to catch up with their urban counterparts and create an equal distribution of digital opportunities.

"I've been around these schools for nearly seven years and the desire for education is always awe-inspiring," Mr James Turing

With his PhD work overlapping with the work of the Turing Trust, James is clearly grateful for the support his supervisors have offered him in the past few years. The University supported the Trust's efforts in a more practical way too: "Our workshop was based in High School Yards for the past two years and we would not have achieved so much if we didn't have that backing," comments James. "During that time we grew from delivering 1,500 a year. We've crossed a hurdle thanks to the University's support."

James founded the Turing Trust in honour of his great uncle, the computer scientist and World War II code-breaker Alan Turing. His uncle's legacy is kept alive by James' work with the Trust. Alan Turing wanted technology to be available to all and was keenly aware that the underprivileged in the world require support.

"One of the lesser known things about Alan was his charitable philosophy and the fact that he sponsored a refugee through higher education throughout his life," reveals James. "Turing helped a young Jewish refugee from Vienna who arrived in the UK in 1939 by securing him a place in a public school and maintaining an interest in his career."

"When Alan was developing aspects of computing, he would have never wanted access to be restricted to only the wealthiest people in the world," says James. "Alan undoubtedly would have wished his technology and work to be shared the world over, which is what we are trying to do with the Turing Trust."
Racing to develop the next mode of transport

A student team’s award-winning efforts to bring about the creation of a revolutionary mode of transport are providing them with a remarkable Edinburgh experience.

Over the past two years members of a student team, called HYPED, have spent countless hours pursuing a global challenge: to help design and build a futuristic travel system known as the Hyperloop.

The brainchild of billionaire entrepreneur Elon Musk, the Hyperloop is a mode of transport intended to take passengers over land in pods travelling at around 750mph in a near vacuum tube. These pods are accelerated by linear induction motors and pass between stations using passive magnetic levitation. A pod could carry up to 20 passengers, and building a route linking Edinburgh and London could allow journey times of just 45 minutes.

The Edinburgh team’s hard work and dedication was richly rewarded in 2017 as its achievements took members of HYPED halfway around the world and won them international recognition.

The team’s President, electrical and mechanical engineering undergraduate Adam Anyszewski, believes its success is partly down to its diversity and the international mix of students involved.

“Team spirit is key,” says Adam. “There are a lot of really ambitious students at Edinburgh, and at HYPED we are working together to try to do something interesting for our careers and the well-being of the world.”

Founded in 2015 by a handful of engineering students, HYPED has since grown into a well-structured society with more than 100 members from disciplines including engineering, business, art and law.

Russian postgraduate Sophiya Volkova, who leads HYPED’s six-strong legal team, is currently pursuing an MSc International Business with Emerging Markets at Edinburgh University by its prestige and the study system known as the Hyperloop.

Last summer HYPED was the only group from the UK – and one of just four European teams – to reach the final of a contest to design and build a prototype Hyperloop pod. Out of 1,200 groups that submitted initial designs to the SpaceX Hyperloop Pod Competition, HYPED was one of only 24 teams invited to compete in the final in California.

Macauley Versey, who is currently studying electrical and mechanical engineering at Edinburgh, is an integral part of HYPED’s technical team and rightly proud of its achievements: “The pod was built in around three months by a handful of HYPED members,” he reports. “The fact we were able to build the pod in such a short time-span and take it to California to compete is remarkable.”

Despite putting in a strong performance in California, the team didn’t win, but Adam believes HYPED can achieve this in future: “We firmly believe it’s within our abilities to finish in one of the highest positions at the next SpaceX competition,” he says. “Taking part was a huge logistical challenge – we moved 20 people and half a tonne of gear to the other side of the Atlantic – so this year we’ll begin planning and building much earlier.”

Since its inception, HYPED has drawn on the expertise, advice and experience of Professor Gordon Masterton and Win Rampen of the University’s School of Engineering, who made an invaluable contribution to their efforts.

“Tackling the Hyperloop competition was a momentous year, the determination and drive of the students of HYPED is sure to propel them on to yet greater success.”

Mr Adam Anyszewski

Alongside their technical expertise in Hyperloop pod design, HYPED’s business awareness was also demonstrated last summer when they became the only student team to win a top prize in a related commercial competition.

More than 2,600 teams registered for the Hyperloop One Global Challenge, which tasked teams with developing detailed plans for the most feasible routes to implement one of the world’s first Hyperloop systems. HYPED’s proposed route from Edinburgh to London was chosen as one of just 10 winners by an expert panel.

“Our ability to tackle both the technical and commercial challenges presented by the Hyperloop arguably makes HYPED the most accomplished student team working on the technology,” says Adam.

HYPED were the only team to compete in both the SpaceX pod competition and also win Hyperloop One’s business challenge.

Their involvement in Hyperloop One was led by Carolina Toczycka, the team’s Head of Commercial, who is a pursuing a PhD in data-driven innovation. Carolina highlights the key role played by the University in helping to create impactful societies: “The University enables students here to create and build amazing experiences for themselves through its support for societies like HYPED,” she says. “I hope that we can inspire other people and show them that there is so much you can achieve as a society at Edinburgh.”

As well as aiming for more success in the next SpaceX pod competition, the team is looking to further develop commercial ties with Hyperloop One and other companies. It is also working on an outreach programme aimed at encouraging more young people, particularly females, into STEM subjects. After a momentous year, the determination and drive of the students of HYPED is sure to propel them on to yet greater success.

“Team spirit is key. There are a lot of really ambitious students at Edinburgh, and at HYPED we are working together to try to do something interesting for our careers and the well-being of the world.”

Mr Adam Anyszewski
The Students’ Association
Teaching Awards 2016–17

Now in their ninth year, the Students’ Association Teaching Awards honour the very best contributions to the student learning experience made by teaching and support staff across the University.

More than 2,400 nominations were received from students for this year’s awards, which took place in Teviot Row House on Thursday 27 April 2017. Here we celebrate the winners and share some of the many positive and insightful comments made by the students who nominated them.

Best Innovative Assessment
Fiona Duffy
School of Health in Social Science for: Applied Psychology for Children and Young People

“We all developed new services, resources and training that are likely to be useful in the real world, I came out of the assignment with not only a good grade and a strong theoretical understanding, but I had a new mental health resource that I could discuss with future employers.”

Best Personal Tutor
Dr Rachel Howell
School of Social & Political Science

“She really cares about every student who passes through her doors. She uses her own experiences to connect to us and suggest the best ways forward.”

Best Student Who Tutors
Tim Squirrel
School of Social & Political Science

“When you go to his tutorials, you know you have someone who cares about your academic development and who is there to prepare you for the trauma of your very first university essays.”

Best Support Staff
Karen Howie
School of History, Classics & Archaeology

“Karen is the linchpin of the School, without her and her IT team, I am convinced the School would fall apart. She is a gold standard employee and the University must never let her go.”

Best Course
Dr Chris Breward and Dr Nikki Moran
Edinburgh College of Art
for: Music, Style, Identity and Image in the Modern Age

“This is the first time we have had the opportunity to do a course that is truly cross-disciplinary. It is the only course I have taken which includes a wide range of students from all over the art school, including visiting students. The discussion in seminars is always lively and there has also been a refreshing amount of content about gender and race relations.”

Best Feedback
Dr Carlos Soler Montes
School of Literatures, Languages & Cultures

“His feedback is beyond compare... he explains concepts thoroughly, diagnosing the individual strengths and weaknesses of each student while also seeking out ‘teachable moments’ that are useful for the entire class.”

Best Research or Dissertation Supervisor
Sarah Dunnigan
School of Literatures, Languages & Cultures

“Sarah’s contribution to academic life has been her unswerving compassion and kindness as a supervisor. She is an inspirational educator who has supported countless students through their postgraduate studies.”

Van Heyningen Award for Best Teaching in Science and Engineering
Corinne Raulcomb
School of GeoSciences

“Corinne has blown me away by not only the sheer extent of expert knowledge that she has been able to convey precisely and clearly but also the enthusiasm and excitement that she has for the subject. The teaching has been fluid, fresh and challenging.”

Ian Campbell Award for Best Teaching in the Arts, Humanities and Social Sciences
Dr Adam Budd
School of History, Classics & Archaeology

“Adam’s teaching is legendary and his courses are consistently popular. Students experience rich, well thought out teaching; as an active researcher and an expert in his field, Adam’s enthusiasm brings his subjects to life. He stands out from the crowd.”

Kendell Award for Best Teaching in Medicine
Dr Kate Byrne
Edinburgh Medical School

“Kate is fully supportive of all her pupils, taking time to get to know each and every one of us. She strikes the perfect balance between offering knowledge and help and encouraging us to puzzle things out for ourselves.”

Jenna Richardson
Royal (Dick) School of Veterinary Medicine
Best Teaching in Veterinary Science
Royal (Dick) School of Veterinary Studies

“It is a challenging thing to make a 150+ seated lecture theatre of mixed-age, tired, unenthusiastic students feel re-enthused immediately after Christmas, but Jenna has done it from day one of our return.”

Corinne Baulcomb
School of GeoSciences
Teaching in Science and Engineering
Van Heyningen Award for Best Support Staff

“Corinne has blown me away by not only the sheer extent of expert knowledge that she has been able to convey precisely and clearly but also the enthusiasm and excitement that she has for the subject. The teaching has been fluid, fresh and challenging.”

Jenna Richardson
Royal (Dick) School of Veterinary Medicine
Best Teaching in Veterinary Science
Royal (Dick) School of Veterinary Studies

“It is a challenging thing to make a 150+ seated lecture theatre of mixed-age, tired, unenthusiastic students feel re-enthused immediately after Christmas, but Jenna has done it from day one of our return.”

www.eusa.ed.ac.uk/teachingawards
Review of the year

A selection of news and events from August 2016 to July 2017

August 2016

Deep time illuminates Edinburgh castle

The world-famous Edinburgh International Festival launched with an epic, outdoor artwork of animation, lighting and music celebrating 350 million years of the city’s history. The 18-minute display, Standard Life Opening Event: Deep Time, was enjoyed by almost 30,000 people who watched the breathtaking animation as it was projected onto Edinburgh Castle and Castle Rock accompanied by music from the Scottish band Mogwai.

University staff worked closely with 59 Productions to help produce the event, which was inspired by the concept of geologic, or ‘deep’, time, developed by alumnus and ‘father of geology’ James Hutton in the 18th century.

Professor Dorothy Mill, Vice-Principal and Head of the College of Arts, Humanities & Social Sciences, commented: "This spectacular show is another cutting edge project demonstrating our long-standing and inspiring partnership with the Edinburgh International Festival and our pioneering work with the digital arts."

www.etf.co.uk/2016/deeptime

September 2016

The University welcomes all on Doors Open Day

The University took part in the annual Edinburgh Doors Open Day, one of the city’s most popular free events. Promoted by the Scottish Civic Trust and coordinated by the Cockburn Association, the event offers people a rare opportunity to see inside some of the most important architectural, social and cultural buildings in the area.

With a 430-year history and an estate which includes many converted, listed and contemporary buildings, the University was able to offer an interesting and varied selection for the weekend-long event.

Visitors enjoyed access to buildings including the refurbished St Cecilia’s Hall (features a detail of the building’s metal facade) in the University’s Central Area; the FloWave Ocean Energy Research Facility at the King’s Buildings; and the Anne Rowling Regenerative Neurology Clinic at Little France. Each building provided information to help visitors learn more about its history, design and day-to-day function, and many offered a range of activities, exhibitions and talks.

www.cockburnassociation.org.uk/edinburgh-doors-open-day

October 2016

Chemistry alumnus wins Nobel Prize

Edinburgh alumnus Professor Sir Fraser Stoddart was awarded the Nobel Prize in Chemistry. The prize was awarded jointly to Professor Stoddart, Jean-Pierre Sauvage and Bernard Feringa for the design and synthesis of molecular machines. Professor Stoddart is one of the few chemists of the past 25 years to have created a new field of organic chemistry. His award recognises his development of a rotaxane molecule in 1991.

Professor Sir Timothy O’Shea, Principal of the University, welcomed the achievement: “For someone who has given so much to others throughout his career, we are thrilled that Professor Stoddart’s work is being celebrated at the highest level.”

Professor Stoddart, currently of Northwestern University in Illinois, received his BSc from Edinburgh in 1964 and a PhD two years later. He was also awarded a DSc degree by the University in 1980 for his research into stereochemistry beyond the molecule.

www.nobelprize.org

November 2016

Festival celebrates Gaelic community

The University was closely involved in the week-long Edinburgh Gaelic Festival, known as Seachdan na Gàidhlig in Gaelic. Among the highlights were the screenings of two Gaelic films, Tior Dorar (picture) and Shepherds of Berneray, at the University’s George Square, and a whisky tasting event led by the University’s Water of Life Society, during which experts offered an insight into the pronunciation and meaning of Gaelic whisky names.

A new Gaelic journal was launched at the University in partnership with publishers Clàr during the festival. STEALL, named established and up-and-coming new Gaelic writers. For the festival finale, the University’s Highland Society hosted a ceilidh in Teviot Row House.

The annual festival is run by a dedicated committee of volunteers and is supported by Gaelic officers from the University and Ismarit Dhèin Èideann (the Edinburgh Gaelic Initiative).

www.ed.ac.uk/about/gaelic-language-plan

December 2016

University commits to cut carbon by 2040

The University’s new Climate Strategy was launched, which aims for the institution to be zero carbon by 2040. Action is being taken across all of the University’s activities, including research, learning and teaching, operations and responsible investment. The first scheme from the strategy was a £2.75 million initiative called the Sustainable Campus Fund to help bring to reality sustainability suggestions made by staff and students.

Edinburgh’s world-leading climate research has secured more than £50 million in funding over the past seven years. The University has also invested more than £30 million in low-carbon and renewable technology on campus. Senior Vice-Principal Charlie Jeffery commented: “In this strategy, we commit to long-term goals to ensure we are leading the way in tackling climate change across all of our activities and recognising the case strength of the University as a globally connected, socially committed research and learning organisation.”

www.ed.ac.uk/about/sustainability

January 2017

Zebras and quest to treat disease

A study, published in the journal Scientific Reports, revealed how tropical fish are helping scientists to stop inflammation in the body. Researchers used specialised microscopes to watch neutrophil cells, that are part of the immune system, as they heal wounds in living zebrafish. Once an infection has been cleared, neutrophil usually self-destruct to prevent bystander damage to healthy tissues. Scientists discovered that a key molecule called CDK9 helps neutrophils to survive the self-destruct process, keeping the inflammation going. Blocking CDK9 – using drugs called CDK9 inhibitors – triggered the neutrophils to die, resolving inflammation in the fish.

“These relatively simple fish are helping us to understand the fundamental process underpinning the resolution of inflammation, and will help discover new therapies for the treatment of inflammatory diseases,” said Professor Adriano Rossi of the Medical Research Council Centre for Inflammation Research, where the research was carried out.

www.nature.com/articles/srep36880
Review of the year

February 2017
Enhancing skills through the Festival of Creative Learning
The University’s Festival of Creative Learning saw more than 130 events open to all staff, students and members of the wider community. The week-long event aimed to give people an opportunity to work together and learn new skills.

Among the inspiring and creative offerings were a mathematics themed bake-off competition, a workshop showcasing the biological science behind glow-in-the-dark plants, and an introduction to mindfulness and beginners’ Spanish – combining relaxation with learning a new language.

Run by the Institute for Academic Development, the Festival of Creative Learning builds on Innovative Learning Week, which ran from 2012 to 2016. It aims to celebrate and share good practices happening throughout the University, and support innovative ways of teaching.

www.festivalofcreativelearning.ed.ac.uk

March 2017
World’s first national live music census takes place
For 24 hours in March, organisers of the UK Live Music Census monitored performances in cities across the country – including buskers, choirs, pub gigs and stadium concerts. The aim of the survey – a world first – was to help measure live music’s cultural and economic value and inform policy to help it flourish.

The Arts and Humanities Research Council-funded census – conducted by the Universities of Edinburgh, Newcastle and Glasgow – recruited volunteers to record aspects of a gig including the musical genre, the venue and the audience demographic.

Dr Matt Brennan, Chancellor’s Fellow, Reid School of Music, said: “Live music in the UK – from the Beatles and the Sex Pistols to West End musicals and Glastonbury – has transformed our culture, yet it is

“Live music in the UK – from the Beatles and the Sex Pistols to West End musicals and Glastonbury – has transformed our culture, yet it is

endangered. Live music in the UK – from the Beatles and the Sex Pistols to West End musicals and Glastonbury – has transformed our culture, yet it is

known that a £1.9 million investment in dementia research was announced. The project – known as the TRIka Consortium – aims to give a clearer understanding of the first factors that determine risk of dementia. It brings together experts led by the University, the BarcelonaBeta Brain Research Centre and Sweden’s Karolinska Institute. The funding came from the US-based Alzheimer’s Association and a donation from an anonymous international charitable foundation.

As part of the project, researchers will study the brain using positron emission tomography and magnetic resonance imaging. Participants in the study will also take part in memory tests, and family history and lifestyle assessments.

Professor Craig Ritchie, Director of the University’s Centre for Dementia Prevention, said: “As brain changes that cause dementia happen many years before symptoms, we have an opportunity to prevent progression before people are affected. TRIka puts us in a unique position to understand how we might do this.”

www.centrefordementiaprevention.com

May 2017
Edinburgh wins the Scottish Boat Race
Edinburgh rowed to victory over Glasgow rivals in the Scottish Boat Race. The annual rowing competition, held on the River Clyde, is the third oldest boat race in the world.

Edinburgh took the trophy after winning all seven of the races: the Graduates Race; Men’s Beginner VIII; Novice Women’s Race; Men’s 2nd VIII; Women’s 2nd VIII; Men’s 1st VIII and Women’s 1st VIII. Rowers included beginners, alumni, and senior men and women from Edinburgh University Boat Club.

The Boat Club, which celebrated its 150th anniversary in 2017, is one of the biggest sports clubs at the University with 230 members. It is one of only a handful of clubs in the UK to host a high-performance programme supported by the organisation British Rowing. The programme was awarded in recognition of the club’s excellent track record nurturing world-class rowers.

www.edinburghrowing.co.uk

June 2017
Innovations celebrated at Inspire Launch Grow Awards
The 2017 Inspire Launch Grow (ILG) Awards were held in the University’s Informatics Forum. The annual awards recognise University staff, researchers, students and alumni who have started a business or social enterprise or turned their research into a business opportunity. Pledging money worth a total of £250,000 was awarded to winners of the Innovation Cup, Emerging Innovation Award, the Social and Environment Award and the Enterprise Award.

Grant Wheeler, Head of Enterprise Development at Edinburgh Innovations, commented: ‘The entrepreneurial talent here at the University is among the best in the UK and this is reflected in the quality of this year’s entries to the ILG awards. The presence of so many successful companies that started here at the University, during the Principal’s term of office, highlights the first-class support that we provide to the student and staff network.’

At the event, the Principal, Professor Sir Timothy O’Shea, was awarded with a Marty the Robot from Robotical, a previous ILG Innovation Cup winner, as a thank you for his support of ILG over the years.

www.launch.ed.ac.uk/ilg

July 2017
Dementia prevention hopes raised by £1.9m boost
A £1.9 million investment in dementia research was announced. The project – known as the TRIka Consortium – aims to give a clearer understanding of the first factors that determine risk of dementia. It brings together experts led by the University, the BarcelonaBeta Brain Research Centre and Sweden’s Karolinska Institute. The funding came from the US-based Alzheimer’s Association and a donation from an anonymous international charitable foundation.

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www.centrefordementiaprevention.com
Honorary graduations and other distinctions

Those awarded honorary degrees between 1 August 2016 and 31 July 2017

Professor Dr Elena Vladimirovna Boldyryeva
Head of Chair of Solid State Chemistry, Novosibirsk State University, Russia
Doctor of Science

Ms Caroline Natalie Freedman
University of Edinburgh appointed member on RCVS Council and active supporter and ambassador of the Royal (Dick) School of Veterinary Studies
Honorary Fellow

Professor Yvonne Galligan
Professor of Comparative Politics, and founding Director, Centre for Advancement of Women in Politics, Queen’s University Belfast
Doctor of Science in Social Science

Mr Donald Hood
Brydon CBE
Chairman, Medical Research Council, London Stock Exchange
Doctor honoris causa

Professor Kurt Roger Deketelaere
Secretary-General of the League of European Research Universities
Doctor of Laws

Professor Dianne Edwards
Research Professor and Director of the Centre for Innovation and Engagement, Cardiff University
Doctor of Science

Professor Wolfgang Herrmann Werner Ernst
Regius Professor of Civil Law, University of Oxford
Doctor of Laws

Reverend Margaret R Forrester
Former Minister of St Michael’s Church of Scotland, Edinburgh
Doctor of Divinity

Ms Caroline Natalie Freedman
University of Edinburgh appointed member on RCVS Council and active supporter and ambassador of the Royal (Dick) School of Veterinary Studies
Honorary Fellow

Professor Bruno Latour
Professor of Sociology, Institut d’Etudes Politiques de Paris
Doctor of Science in Social Science

Ms Lilian Keddie Lawson OBE
Retired Director of Scottish Council on Deafness
Doctor honoris causa

Mr Magnus Duncan Linklater CBE
Former Editor of The Scotsman, broadcaster and author
Doctor honoris causa

Mr Joshua Howard Littlejohn
Co-founder of Blue Ventures
Doctor of Science

Mr Tom Nairn
Author and academic
Doctor of Science in Social Science

Mr Sir Roger Penrose
Emeritus Rouse Ball Professor of Mathematics at the University of Oxford
Doctor of Science

Professor William Reid
Dean of Postgraduate Medicine, Scotland
Doctor honoris causa

Professor Sir Roger Penrose
Emeritus Rouse Ball Professor of Mathematics at the University of Oxford
Doctor of Science

Professor William Reid
Dean of Postgraduate Medicine, Scotland
Doctor of Science

Professor Brigid Laffan
Director of the Robert Schuman Centre for Advanced Studies and Director of the Global Governance Programme, European University Institute, Florence
Doctor of Laws

Dr Michael Hugh Mosley
Science journalist, presenter and executive producer
Doctor of Science

Dr Denis Rutovitz
Retired section head, MRC Human Genetics Unit, now Chairman (and founder) of Edinburgh Direct Aid
Doctor of Science

Professor Brigid Laffan
Director of the Robert Schuman Centre for Advanced Studies and Director of the Global Governance Programme, European University Institute, Florence
Doctor of Laws

Mr Donald Hood
Brydon CBE
Chairman, Medical Research Council, London Stock Exchange
Doctor honoris causa

Mr Justin Pierre James Trudelle
Prime Minister of Canada
Doctor honoris causa

Mr Andrew James Scott
Artist and sculptural practitioner specialising in public art
Doctor honoris causa

Mr Robert Paul Madelin
President European Federation of Accountants
Doctor honoris causa

Mr Charles Basil Tilley
OBE
Former Chief Executive of the Chartered Institute of Management Accountants
Doctor honoris causa

Mr Andrew Whiten
Professor of Evolutionary and Developmental Psychology and Wardlaw Professor of Psychology, University of St Andrews
Doctor honoris causa

Mr Brian Robertson and Mr Alastair Maclean
Robert O Curle Charitable Trust
Named after a former staff member, the trust supports medical and veterinary research at the University.

Mr Andrew Whiten
Professor of Evolutionary and Developmental Psychology and Wardlaw Professor of Psychology, University of St Andrews
Doctor honoris causa

Mr Tom Nairn
Author and academic
Doctor of Science in Social Science

Professor Sir Roger Penrose
Emeritus Rouse Ball Professor of Mathematics at the University of Oxford
Doctor of Science

Professor William Reid
Dean of Postgraduate Medicine, Scotland
Doctor of Science

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Emeritus Rouse Ball Professor of Mathematics at the University of Oxford
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Mr Andrew Whiten
Professor of Evolutionary and Developmental Psychology and Wardlaw Professor of Psychology, University of St Andrews
Doctor honoris causa
Awards and achievements

Queen’s Honours

New Year Honours
Dr Mirko Canevaro, Assistant Principal External Relations, was appointed Commander of the Order of the British Empire (CBE) for services to business, education and public service.
Professor Christopher Hailett, Director of the Queen’s Management Research Institute, was appointed CBE for services to medical research.
Simon Frith, Tovey Professor of Music, was appointed Officer of the Order of the British Empire (OBE) for services to higher education and popular music.

Awards & achievements

A selection of accolades bestowed upon staff, students, alumni and associates of the University of Edinburgh between 1 August 2016 and 31 July 2017

University Awards

Chancellor’s Awards 2016
These annual awards, presented by the University’s Chancellor, are given in recognition of innovation, relevance, creativity and personal dedication in teaching and research.
Dr Jessie Paterson, Lecturer in Student Learning at The Royal (Dick) School of Veterinary Studies received the Award for Teaching.
Professor Andrew Rambaut, Chair in Molecular Evolution, School of Biological Sciences, received the Award for Research.
Professor Lesley McAra, Assistant Principal Community Relations and Chair of Penology, and Professor Susan McVie, Chair of Quantitative Criminology, School of Law, received the Award for Impact.
Dr Sam Spiegel, Lecturer in International Development and Director of Research at the Centre of African Studies, received the Rising Star Award, which honours early-career staff who demonstrate great potential.

Principal’s Medals 2016
These medals are one of the most important ways in which the University recognises both support and academic staff or current students who have made outstanding contributions to both the University and wider communities. Recipients are usually nominated by colleagues or fellow students.
Amy Woodgate, Project Manager, Distance Education Initiative & Massive Open Online Courses (MOOCs), and the MOOCs Team, received the Exceptional Service medal in recognition of their major contribution in establishing the University’s internationally leading reputation for delivering MOOCs.
Colin Adams, Director of Commercialisation, received the Service to the Community award in recognition of his work in leading the commercialisation activities within and beyond the School of Informatics.
Tam Dalyell Prize for Excellence in Engaging the Public with Science
The 2016 prize was awarded to Professor Jon Oberlander, Chair in Epistemics in the School of Informatics, who died suddenly and tragically in December 2017.

Research recognition

Nobel Prize in Chemistry
Professor Sir Fraser Stoddart, alumnus of the University, has jointly been awarded the Nobel Prize in Chemistry for the design and synthesis of molecular machines. Professor Stoddart received his BSc from Edinburgh in 1964 and a PhD in 1968. In 1980 he was awarded a DSc.
Regius Chair of Medical Science
Professor Sir John Savill, former Head of the College of Medicine & Veterinary Medicine, was appointed to the Regius Chair of Medical Science at the University in recognition of his international reputation and outstanding contribution to medical research in investigating the molecular processes of inflammation.
Royal Commission for the 1851 Exhibition Medal
Professor Emeritus Peter Higgins, Nobel Laureate in Physics 2013, has received the Royal Commission for the 1851 Exhibition Medal for his outstanding contribution to physics. It is only the third time the medal has been awarded since its introduction in 2006.
British Medical Journal Imaging Team Award
The Clinical Research Imaging Centre and partners NHS Lothian won the BMI Imaging Team Award for their SCOT-HEART trial using CT coronary angiography, which is said to have led to a threefold reduction in standard invasive angiography, and led to a new model for testing people with chest pain.
Royal Scottish Geographical Society’s W S Bruce medal
Professor Brian Howden, a Chancellor’s Fellow in the School of Geosciences, was presented with the WS Bruce medal by the Royal Scottish Geographical Society. The award recognises his scientific research into the history of ice-sheet fluctuations in Antarctica.

Academia Europeana
Professor Ian Ralston, School of History, Classics & Archaeology, was elected as a member of the Academia Europaea. The Academia is a pan-European academy of science, humanities and letters with 4,000 members, including 72 Nobel Laureates.

Making an impact

Academic Association of Contemporary European Studies (AACES) Tilden Prize
Professor Jo Shaw, Salvesen Chair in European Institutions received a UACES Lifetime Achievement Award, for her contribution to the development of European Studies as a discipline.

Rising stars

Royal Society of Chemistry
Dr Andrew Lawrence, Assistant Lecturer in organic chemistry, was awarded the society’s Hickbottom Award, which is awarded for contributions to organic chemistry from a researcher under the age of 35, for his work on improving how scientists make medicines, agrochemicals and other materials.
Dr Nicholole Bell, Research Fellow, won the Joseph Black Award 2017, which is made to an early-career scientist in any field covering the practice and teaching of analytical science. Dr Bell won for her work in creating tools for assessing the status of potatoes.

British Ramsay Memorial Fellowship
Dr Jeni Carden, Christina Miller Fellow in the School of Chemistry, was awarded a two-year British Ramsay Memorial Fellowship which she will take up when her current fellowship ends in September 2018.

British Psychological Society’s Award for Innovation in Psychology
The Psychology teaching team at the University was recognised for enhancing opportunities for students who have a learning disability.

British Psychological Society’s Expedition Award
The Psychology Psychology teaching team at the University was recognised for enhancing opportunities for students who have a learning disability.

Association of Human Rights Institutes
Dr Kasey McCall Smith, Edinburgh Law School, was appointed Chair of the Association of Human Rights Institutes (AHRI). AHRI is an international network, which undertakes research and transfers knowledge.

Fellowships

Royal Society
Four members of University staff have been elected Fellows of the Royal Society: Professor Wendy Bickmore, Director of the MRC Human Genetics Unit; Christopher Bishop, Professor of Computer Science; Gabriele Heyer, Professor of Climate System Sciences ; and Josephine Pemberton, Professor of Molecular Ecology.

Michela Massimi, Professor of Philosophy of Science in the School of Philosophy, Psychology & Language Sciences, was awarded the society’s prestigious Wilkinson-Bernstein Medal for her work on communicating the philosophy of science.

Royal Society of Edinburgh
Seven members of University staff have been made fellows of the Royal Society of Edinburgh: Professor Tim Altmann, Professor of Molecular Pathology and Genetics and Director of Centre for Genomic and Experimental Medicine; Professor Christina Boswell, Professor of Politics; Professor Harald Haas, Professor of Mobile Communications; Professor Neil McKeown, Cranfield University Professor of Chemistry; Professor Jane Norman, Professor of Oral and Dental Health; Professor Alexander Tuchat, Hope, Head of School of Geosciences and Professor of Environmental Physics; and Professor John Riordan, Professor of Physics and Education.

Academy of Medical Scientists
Three members of University staff were made Fellows of the Academy of Medical Scientists: Professor David Fitzpatrick, Joint Section Director of the Centre for Regenerative Medicine at the Centre for Regenerative Medicine.

Fellowships

Royal Society
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Academy of Medical Scientists
Three members of University staff were made Fellows of the Academy of Medical Scientists: Professor David Fitzpatrick, Joint Section Director of the Centre for Regenerative Medicine at the Centre for Regenerative Medicine.
Financial review

It has been another year in which the University has operated in challenging circumstances, facing headwinds in UK public sector funding, more political uncertainty and higher education funding pressures. The University is well positioned for the future, and we will continue to innovate to maintain our position and reputation as an influential and world-class institution.

The University has made good progress over the past year, and we are confident that the institution is well placed financially to deal with its short and longer term commitments. While the consequences of leaving the EU are still somewhat ambiguous, our new framework, which focuses on online education and international partnerships, will ensure continued stability.

In an increasingly competitive environment we are pleased to have increased operational income by 4.3 per cent. Total unrestricted comprehensive income for 2016/17 was £69 million, which was 55 per cent of total comprehensive income, representing funds available for reinvestment.

Funding council grants reduced by £2.7 million although there were significant offsets underlying the position. Recurrent teaching and research funding is in a reducing trend. However, funding for buildings and equipment was up by £3.4 million.

Our student population grew by 8.6 per cent in the year to 35,576 students. Tuition fee income rose by £2.3 million, up nine per cent. This growth was due to a seven per cent increase in international student headcount. The decline in Scottish and EU tuition fees is offset from Rest of UK (RUk) fees.

Research income from grants and contracts grew by four per cent (£11.4 million) on the previous year to £265 million. The University achieved great success in winning research grants and contracts of £364 million, up by 34 per cent on last year’s total of £268 million and 19 per cent up on the previous record of £305 million reported in 2014/15.

Nearly a fifth of the University’s income, £157 million, is earned from other sources, three per cent lower (£4 million) than last year’s performance.

Income from our endowment investments was £8.4 million, down seven per cent on last year, but the overall market return on investments (income plus capital appreciation) was 16 per cent (2016: 8.9 per cent). Other investment income grew by £1.6 million on last year and bank interest grew by £0.3 million to £3.4 million, an increase of 10 per cent.

Under Financial Reporting Standard (FRS) 102, revenue recognition rules mean that we include income from new donations and endowments accepted in the year. Donations increased in 2016/17 by £1.3 million to £20 million and we received £1.7 million from new endowments (down by £2.7 million on last year).

Group expenditure increased year on year by three per cent (£2.9 million), reflecting controlled investment for growth. Staff costs as a proportion of total operating income were 53 per cent, compared to nearly 54 per cent in the prior year (excluding Research and Development Expenditure Credit). £15 million of the increase (£54 per cent) was in academic and related support staff, with a further £8 million (30 per cent) invested in research grants and contracts staff as research income continued to grow.

Under FRS 102, we provide for our share of the University Superannuation Scheme recovery plan in the staff costs disclosure. In 2016/17 we have a net credit adjustment of £4.9 million as we unwind the opening provision.

Other costs, which include expenditure on subsidiary company activities, student accommodation, bursaries, premises costs and library services, have increased by £6 million (two per cent) from last year.

Depreciation accounted for five per cent of total spend (£47 million in 2016/17), up by 15 per cent (£6 million) on last year. This planned increase is due to the increased capital spend, reflecting the University’s ambitious capital programme and commitment to investing in quality infrastructure and equipment.

Interest and other finance costs are £9 million, is interest payable on borrowing and finance leases and £6 million is the net charge on pension scheme liabilities.

We are pleased to report continued strength in the University Group balance sheet. This strength was a key factor in securing long-term funding from which to invest in the transformational Estates Strategy and provides a strong covenant to the trustees of our pension funds. All balance sheet financial metrics are resilient.

This is the second year that we have aligned our Annual Report and Accounts to the International Integrated Reporting Framework, championed by the British Universities Finance Directors Group. Integrated reporting has provided a very useful framework within which we can demonstrate the huge value created by the University to our wide and distinctive group of stakeholders.

The above information reflects the audited accounts for the year to 31 July 2017, published in December 2017. Anyone interested in obtaining further information is invited to contact the University’s Finance Department.

www.ed.ac.uk/finance/accounts

Consolidated statement of comprehensive income and expenditure for the year ended 31 July 2017

<table>
<thead>
<tr>
<th></th>
<th>2017</th>
<th>Result before exceptional items 2016</th>
<th>Exceptional items 2016</th>
<th>Total 2016</th>
</tr>
</thead>
<tbody>
<tr>
<td>Income</td>
<td>929</td>
<td>889</td>
<td>19</td>
<td>908</td>
</tr>
<tr>
<td>Expenditure</td>
<td>873</td>
<td>844</td>
<td>–</td>
<td>844</td>
</tr>
<tr>
<td>Operating surplus</td>
<td>56</td>
<td>45</td>
<td>19</td>
<td>64</td>
</tr>
<tr>
<td>Gain on disposal of fixed assets</td>
<td>8</td>
<td>1</td>
<td>–</td>
<td>1</td>
</tr>
<tr>
<td>Gain on investments</td>
<td>66</td>
<td>29</td>
<td>–</td>
<td>29</td>
</tr>
<tr>
<td>Tax</td>
<td>(4)</td>
<td>(4)</td>
<td>–</td>
<td>(4)</td>
</tr>
<tr>
<td>Surplus for the year</td>
<td>130</td>
<td>75</td>
<td>15</td>
<td>90</td>
</tr>
<tr>
<td>Revaluations surplus</td>
<td>–</td>
<td>7</td>
<td>–</td>
<td>7</td>
</tr>
<tr>
<td>Actuarial loss</td>
<td>(5)</td>
<td>(41)</td>
<td>–</td>
<td>(41)</td>
</tr>
<tr>
<td>Total comprehensive income</td>
<td>125</td>
<td>41</td>
<td>15</td>
<td>90</td>
</tr>
</tbody>
</table>

Represented by:

Unrestricted comprehensive income | 69 | 15 | 15 |
Endowment comprehensive income | 49 | 28 | 28 |
Restricted comprehensive income | 7  | 6  | 6  |
Revaluation comprehensive income | –  | 7  | 7  |

Consolidated balance sheet as at 31 July 2017

<table>
<thead>
<tr>
<th></th>
<th>2017</th>
<th>2016</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fixed assets</td>
<td>1,617</td>
<td>1,493</td>
</tr>
<tr>
<td>Heriage assets</td>
<td>212</td>
<td>212</td>
</tr>
<tr>
<td>Investments</td>
<td>531</td>
<td>471</td>
</tr>
<tr>
<td>Net current assets</td>
<td>266</td>
<td>255</td>
</tr>
<tr>
<td>Total assets less current liabilities</td>
<td>2,626</td>
<td>2,431</td>
</tr>
<tr>
<td>Creditors: amounts falling due after more than one year</td>
<td>(319)</td>
<td>(257)</td>
</tr>
<tr>
<td>Pension provisions</td>
<td>(261)</td>
<td>(254)</td>
</tr>
<tr>
<td>Total net assets</td>
<td>2,046</td>
<td>1,921</td>
</tr>
<tr>
<td>Restricted reserves</td>
<td>392</td>
<td>343</td>
</tr>
<tr>
<td>Income and expenditure reserve – endowment reserves</td>
<td>48</td>
<td>41</td>
</tr>
<tr>
<td>Income and expenditure reserve – restricted reserves</td>
<td>1,398</td>
<td>1,329</td>
</tr>
<tr>
<td>Revaluation reserve</td>
<td>208</td>
<td>208</td>
</tr>
<tr>
<td>Total reserves</td>
<td>2,046</td>
<td>1,921</td>
</tr>
</tbody>
</table>
Appointments

Appointments commenced between 1 August 2016 and 31 July 2017

College of Arts, Humanities & Social Sciences

Personal Chairs
Professor Rowena Arshad
Personal Chair of Arts Race and Multicultural Education
Professor Stefan Bilbao
Personal Chair of Acoustics and Audio Signal Processing
Professor Stephen Bowd
Personal Chair of Early Modern History
Professor Mary Brennan
Personal Chair of Food Marketing and Society
Professor Matthew Chrisman
Personal Chair of Ethics and Epistemology
Professor Paul Du Plessis
Personal Chair of Roman Law
Professor Adam Fox
Personal Chair of Social Policy and Research Methods
Professor Stephen Neff
Personal Chair of War and Peace
Professor Larissa Ryazanova-Clarke
Personal Chair of Russian and Sociolinguistics
Professor Kenny Smith
Personal Chair of Evolutionary Linguistics
Professor Genevieve WarwicK
Personal Chair of History of Art
Professor Naula Zahedieh
Personal Chair Economic and Social History

Professorships
Professor Francis Greene
Chair of Entrepreneurship
Professor Aisha Holloway
Chair of Nursing Studies
Professor Nasar Meer
Chair of Race, Identity and Citizenship
Professor JP Singh
Chair of Culture and Political Economy

Honorary Professors
Professor Peter Aspinall
Edinburgh College of Art
Professor Michael Clarke
Professor Guy Jubb
Business School
Professor Chen Liming
School of Literatures, Languages & Cultures
Professor Li Yining
Business School

College of Medicine & Veterinary Medicine

Personal Chairs
Professor Colin Duncan
Personal Chair of Reproductive Medicine and Science
Professor Ross Houston
Personal Chair of Aquacultural Genetics
Professor Keisuke Kaji
Personal Chair of Biochemistry
Professor Simone Meddle
Personal Chair of Behavioural Neuroendocrinology
Professor Harish Nair
Personal Chair of Paediatric Infectious Diseases and Global Health
Professor Hilary Pinnock
Personal Chair of Primary Care Respiratory Medicine
Professor Martin Taylor
Personal Chair of Evolutionary Genomics
Professor Albert Tenesa
Personal Chair of Quantitative Genetics
Professor Mike Watson
Personal Chair of Bioinformatics and Computational Biology
Professor Christopher Wei
Personal Chair of Medical Statistics and Clinical Trials
Professor Anna Williams
Personal Chair of Regenerative Neurology
Professor Jim Wilson
Personal Chair of Human Genetics

Professorships
Professor Liz Bagg
Chair of Food and Environmental Security
Professor Appolonia Dijkeng
Chair of Tropical Livestock Genetics and Health
Professor David Dockrell
Chair of Infection Medicine
Professor Giles Harding
City of Edinburgh Chair of Pharmacology
Professor John Norrie
Chair of Medical Statistics and Trial Methodology
Professor Geoff Simm
Chair of Global Agriculture and Food Security

Honorary Professors
Professor Lesley Colvin
Deanery of Clinical Sciences
Professor Simon Kelley
Chair of isotopic Geochronology
Professor Finn Lindgren
Chair of Statistics
Professor Murray Roberts
Chair in Applied Marine Biology and Ecology

College of Science & Engineering

Personal Chairs
Professor Marialuisa Alidita
Personal Chair of Experimental Nuclear Astrophysics
Professor David Aspinall
Personal Chair in Software Safety and Security
Professor Tom Bruce
Personal Chair of Coastal and Maritime Hydromechanics
Professor Nick Colegrave
Personal Chair of Experimental Evolution
Professor Ruth Doherty
Personal Chair of Atmospheric Sciences
Professor Kousha Etesami
College of Science - Personal Chair of Algorithms, Games, Logic, and Complexity
Professor Stefano Ferrari
Personal Chair of Visual Learning
Professor Andrew Goryachev
Personal Chair of Computational Cell Biology
Professor Catherine Heymans
Personal Chair of Observational Cosmology
Professor Elham Keshifi
Personal Chair of Quantum Computing
Professor Vasileios Koutson
Personal Chair of Soft Materials and Surfaces
Professor Robert Mann
Personal Chair of Survey Astronomy
Professor Simon Mudd
Personal Chair of Earth Surface Processes
Professor Lev Sarkisov
Personal Chair of Molecular Thermodynamics

Professorships
Professor Paul Glendinning
School of Mathematics
Professor Paul Glendinning
School of Geosciences
Dr Francisco Garcia
School of Informatics
Professor Paul Glendinning
School of Mathematics

Appendices

Honorary Professors
Professor Sarah Curtis
School of Geosciences
Professor Sarah Curtis
School of Informatics
Professor Paul Glendinning
School of Mathematics

Appendices

Honorary Professors
Professor Sarah Curtis
School of Geosciences
Professor Paul Glendinning
School of Informatics
Professor Paul Glendinning
School of Mathematics
Appendix 1

Student numbers

### Level of study by College

<table>
<thead>
<tr>
<th></th>
<th>UG</th>
<th>PGT</th>
<th>PGR</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arts, Humanities &amp; Social Sciences</td>
<td>15,910</td>
<td>5,598</td>
<td>2,115</td>
<td>23,647</td>
</tr>
<tr>
<td>Science &amp; Engineering</td>
<td>6,286</td>
<td>1,256</td>
<td>2,065</td>
<td>9,607</td>
</tr>
<tr>
<td>Medicine &amp; Veterinary Medicine</td>
<td>3,033</td>
<td>2,111</td>
<td>1,178</td>
<td>6,322</td>
</tr>
<tr>
<td>Total</td>
<td>25,229</td>
<td>8,965</td>
<td>5,358</td>
<td>39,576</td>
</tr>
</tbody>
</table>

UC: undergraduate  
PCT: postgraduate taught  
PCR: postgraduate research

### Student body by domicile region on entry

- Arts, Humanities & Social Sciences: 23,647
- Science & Engineering: 9,607
- Medicine & Veterinary Medicine: 6,322
- Total: 39,576

Please note: Channel Islands and Isle of Man students have been categorised as international students.

### Student body by level of study and gender

<table>
<thead>
<tr>
<th>Level of Study</th>
<th>Male</th>
<th>Female</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>UG</td>
<td>19,229</td>
<td>24,054</td>
<td>33,283</td>
</tr>
<tr>
<td>PGT</td>
<td>3,740</td>
<td>5,921</td>
<td>9,661</td>
</tr>
<tr>
<td>PGR</td>
<td>2,260</td>
<td>2,560</td>
<td>4,820</td>
</tr>
<tr>
<td>Total</td>
<td>25,230</td>
<td>32,535</td>
<td>57,765</td>
</tr>
</tbody>
</table>

### Part-time student body by level of study

<table>
<thead>
<tr>
<th>Level of Study</th>
<th>Full time</th>
<th>Part time</th>
</tr>
</thead>
<tbody>
<tr>
<td>UG</td>
<td>12,633</td>
<td>6,597</td>
</tr>
<tr>
<td>PGT</td>
<td>1,096</td>
<td>2,654</td>
</tr>
<tr>
<td>PGR</td>
<td>1,178</td>
<td>3,442</td>
</tr>
<tr>
<td>Total</td>
<td>25,229</td>
<td>12,693</td>
</tr>
</tbody>
</table>

### Top 20 non-UK domicile on entry

- China: 3,821
- United States of America: 2,754
- Germany: 684
- Canada: 523
- Australia: 474
- Malaysia: 455
- France: 454
- Italy: 438
- Hong Kong: 438
- Greece: 403
- India: 396
- Spain: 356
- Ireland: 356
- Singapore: 336
- Netherlands: 251
- Norway: 208
- Sweden: 168
- Poland: 159
- Belgium: 159
- Switzerland: 156

Please note: The figures above represent all students matriculated during the session, with the exception of those exiting or interrupting their studies within five weeks of the first semester start date. Visiting students, part-time and distance learning students, and students on collaborative programmes are included. Domicile on entry is declared by the student when first matriculating onto their programme.
Appendix 2

Undergraduate applications and acceptances

<table>
<thead>
<tr>
<th>Year</th>
<th>Applications</th>
<th>Women</th>
<th>Men</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>2008**</td>
<td>21,703</td>
<td>2,466</td>
<td>19,237</td>
<td>40,955</td>
</tr>
<tr>
<td>2009</td>
<td>22,523</td>
<td>2,599</td>
<td>19,924</td>
<td>42,417</td>
</tr>
<tr>
<td>2010</td>
<td>21,601</td>
<td>2,567</td>
<td>19,034</td>
<td>40,695</td>
</tr>
<tr>
<td>2011</td>
<td>18,549</td>
<td>1,981</td>
<td>16,568</td>
<td>36,106</td>
</tr>
<tr>
<td>2012</td>
<td>18,156</td>
<td>1,891</td>
<td>16,265</td>
<td>34,426</td>
</tr>
<tr>
<td>2013</td>
<td>21,707</td>
<td>2,218</td>
<td>19,489</td>
<td>41,116</td>
</tr>
<tr>
<td>2014</td>
<td>22,984</td>
<td>2,365</td>
<td>20,619</td>
<td>43,668</td>
</tr>
<tr>
<td>2015</td>
<td>24,563</td>
<td>2,371</td>
<td>22,192</td>
<td>46,775</td>
</tr>
<tr>
<td>2016</td>
<td>25,345</td>
<td>2,386</td>
<td>22,959</td>
<td>47,313</td>
</tr>
</tbody>
</table>

Appendix 3

Benefits

Giving from 1 August 2016 to 31 July 2017

The University is grateful to all donors, including those who wish to remain anonymous.

£1,000–£4,999
- A Sinclair Henderson Trust
- Alcon Chemical
- Alexei Mysorovshock Europe
- Mr Nicholas Allison
- AmatI Global Investors
- Amazon UK Services Ltd
- Analog Devices Limited
- Andrew Smith Memorial Foundation
- Sir Edward Arens*
- Mr Michael J Avery
- Dr Margaret Baird
- Baffle Trust
- Mr Geoff Bell FCA
- The Late Miss Janet Balston
- Mr Christopher V Ban
- Bank of America Merrill Lynch
- Barclay Viewforth Church
- Mrs Janet Barlow
- Mr Alan Bell
- Mrs Frances Bell
- Mr David P Bondy
- Ms Verna Bevilacqua
- Professor Rajinder S Bhopal CBE
- Dr Paul Bird
- Dr Stuart Blackie
- Mrs Catherine Bighe
- Miss Dorothy Boardman
- Dr Stephen Bondurant*
- BP Foundation Matched Giving
- Mr David Brook
- Sir Francis G Brooke Bt
- Professor Alice Brown CBE
- Mrs Ada Brownlie MBE
- Mr W M and Mrs Toni E Buchan
- Mrs Ann Burleigh
- Ms Amanda Burston
- Professor Ian Campbell
- Mrs Sheila E Cannell
- The Late Miss Audrey Capes
- Dr JD Eric Carson
- Ceva Animal Health
- Dr Richard Chin
- Dr Andrew Chisholm
- Dr David J Clark*
- Mr James Clarke
- The Late Ms Nicole Coates
- Mr Henry Cobbe
- Mrs Margaret K Cook
- Mr Donald Cowan
- Mr Stephen Cowden
- Mr Liz Dalby
- Mr Mario D’Arminco
- Ms Susan D’Arminco
- David Stevenson Trust
- Mrs Joyce Denny
- Dr Maria Ogurcak-Graham MBE
- Mrs Hazel Docherty
- Mr James W Dodds
- Mrs Eleanor K Eddie
- Mr Douglas Eddy
- Mr Robert Eden
- Edinburgh University Club of Toronto
- Eighteenth-Century Scottish Studies Society
- Emma Cameron Foundation
- The Hon Lord Inchtc QCB
- Mr Christopher Ewan*
- Mr and Mrs Fairweather’s Charitable Trust
- Dr Riaulyn Fenton May*
- Pfei Ladis Bras
- Mr Stratos Filalithis
- Faire Edinburgh Ltd
- Mrs Doris Foreman
- Rev Mrs Margaret Forrester
- The Late Mrs Rosalind Fortune
- Ms Caroline Fowler
- Free Legal Advice Centre
- Professor David W Garland
- Mrs Margaret M Garvie
- Mrs Elspeth Gibbon
- Mr John Gibson
- Ms Marlene H Gilchrist
- Mr I Alan Godden
- Mr and Mrs Alison Grant
- Mr Murray Grant
- Mr Alan Gray
- Mr Gelpreet Grewal-Kang
- Mrs Gillian Gifford
- Mrs G Fay Gifford
- Mr Gelpreet Grewel-Kew
- Ms Pheflay Masie
- Mrs F Masie
- Mr David A Massingham
- Mr Richard H Maclay CBE
- Mrs Virginia Maciver
- Mrs Jacqueline MacLennan
- Dr Mary MacLeod
- The Late Mr Donald MacLindley
- Mrs Dalry MacLindley
- Ms Phyllis Masie
- Mrs F Masie
- Mr David A Massingham
- Mrs Richard H Maclay CBE
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- Mr David Lambert
- Mr Peter Lamb
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- Dr David Langeth*
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- Mr William Lewis
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- Mr Andrew U Lyonburn CBE
- Dr Angus Macarthur
- Mr A Donald M MacDonald CBE
- Mr W K MacKee CBE
- Mrs Virginia Maciver
- Mrs Jacqueline MacLennan
- Dr Mary MacLeod
- The Late Mr Donald MacLindley
- Mrs Dalry MacLindley
- Ms Phyllis Masie
- Mrs F Masie
- Mr David A Massingham
- Mr Richard H Maclay CBE
- Mrs Virginia Maciver
- Mrs Vanessa Riley
- Professor Craig Ritchie
- Alex Robertson
- Dr Ian Roger-Caldbeck
- Mr T G Rose
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- Mr Michael Rutherford
- Lady Christine Ryle
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- Mrs Catherine Scott
- Mr Douglas Scott
- Scottish Journal of Theology
- Barry Sealey
- Mr Ruth Seymour
- The Late Mrs Bessie Shabn
- Mr Gary Sharr
- Dr Alastair Sharp
- Mr Richard Shetan
- Mr Andrew Shepherd
- Ms Alison Shepherd
- The Late Professor F Oldsim
- Dr Isabella Smith
- Mr Jamie Smith
- Mrs C Miller
- Mr David Miller
- Mrs Eleanor Miller
- Mr Ronald Miller CBE
- Dr Marc Moore
- Dr Steven Morley
- Mr Dermot Morrin
- Dr George Morris
- Mr Brian Musil
- Mr James Murray
- National Association of Decorative and Fine Arts Societies
- Dr Fiona Nelson
- Rev Mrs Alison Newell
- P & C Collins Fund*
- Dr James Page*
- Lady Fiona Pattullo
- Paul Calvin Memorial Foundation Trust*
- The Late Dr Christina Picton
- Phillipa MA
- Dr R Neal Pickard*
- Mr George Rafferty MBE DI
- Mr Gavin Reid
- Reunion – Law 1964–1967
- Mr Kevin D Reynard
- Mrs Angela Rice
- Dr StephenJ Richards
- Mrs Georgina Riley
- Mr Andrew U Lyonburn CBE
- Dr Angus Macarthur
- Ms Virginia Maciver
- Mrs Vanessa Riley
- Professor Craig Ritchie
- Alex Robertson
- Dr Ian Roger-Caldbeck
- Mr T G Rose
- Mrs Margaret Russell
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- Ms Virginia Maciver
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- Dr Ian Roger-Caldbeck
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- Mr Michael Rutherford
- Lady Christine Ryle
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- Scottish Journal of Theology
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- Mr Ruth Seymour
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- Mr Gary Sharr
- Dr Alastair Sharp
- Mr Richard Shetan
- Mr Andrew Shepherd
- Ms Alison Shepherd
- The Late Professor F Oldsim
- Dr Isabella Smith
- Mr Jamie Smith

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- * Donors to the University of Edinburgh USA Development Trust Inc, an organisation formed to advance the purpose of the University of Edinburgh.
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Benefactions (continued)

Mrs Linda Smith
Dr Tony Smith
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The University of Edinburgh Graduates’ Association
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The Late Professor Evelyn A V Ewosloth FRS
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Charitable Trust
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Friends of St Cecilia’s Hall
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Glenmore Charitable Trust
Hamish & Doris Crich Charitable Trust
Dr Anthony Hayward
The Late Dr William Hutton
ICAS Foundation
Mr George Innes
Mrs M Innes
The Late Mrs Kathleen Irvine
Mr Utsaava Kasaen
Keystones Technologies, Inc
Korala Associates Ltd
The Late Mrs Marjorie K Lafrey
Lob’s Charity
The Late Dr John Lunde
The Late Mrs Elizabeth Macdonald
The Late Miss Beatrice Maclean
Mr Ian and Mrs Antoniette McDonald
Microsoft Research
Mr Roger Miller
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Amazon.com
Amazon (UK) Foundation Ltd
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Ballie Gifford & Co
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The Royal Bank of Scotland Unite Group Plc
Dr Mark and Mrs Claire Urquhart
Dr Anne Voss*
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Mr Derek and Mrs Maureen Moss
Dr Anne Waring
Awards & Achievements

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Appendix 4

Research grants and other sources of funding

Sponsor type
Sum of award
EU – Government £38,877,363
European Commission £38,877,363
EU – Industry £1,495,495
Airbus Operations GmbH €19,215
Skanem International B.V. €45,252
Apane AB €101,308
Bath University Physics & Astronomy £50,057
Cofferlaw Ocean ALL €40,000
Genmisica S.A.U. €0
Helmholtz Research Centre µScience €40,000
Inter-SK: La baita di Mont-Saint-Michel €3,000
Leopold’s International SPA €92,136
Network Engine for Objects in Lund €32,496
University of Stavanger €76,720
University of Oslo €5,000
Research Council of Canada €12,428
Research Council of Norway, The €141,083
Organisation for Economic Research, The €147,308
National Center for Scientific Research France €198,285
Overseas – Charities £8,226,643
Alexandra Italia Science Multiple Charities £61,458
BNI Foundation £13,462
Health Research Charities and Endowments £3,987
Foundation National Council for Life £3,987
Overseas – Government and Research Councils £2,437,250
Academy of Korean Studies, The £10,549
CABX £561,340
Columbia University £110,000
Economic and Social Research Council £2,768
Japan Foundation Endowment Committee, The £2,220
National Renewable Energy Laboratory £36,475
Ministry of Culture, Republic of China (Taiwan) £15,172
National Institute of Food and Agriculture £195,613
National Institute of Standards and Technology £315,741
National Science Foundation £32,866
Office of Naval Research £26,762
Project Management Institute, Inc. £11,933
President of the University of California £12,753
Research Foundation of City University of New York £10,919
Social Trends Institute £21,425
Terra Foundation for American Art £83,000
The George Institute for Global Health £16,454
The Japan Foundation £9,739
Terra Geoscience and Education Initiative £144,800
United States Department of Agriculture £95,272
University of Alberta £27,500
University of California £6,261
University Research Alliance for Syria £90,650
US Army Research Laboratory £15,819
Vale University £27,681
Overseas – Industry £6,380,582
Agentur für Technologie £929,383
Biogen Idec £953,794
Biological Process Science and Technology Co. Ltd £180,000
GlaxoSmithKline £30,160
National Geographic Society £16,667
National Gallery of Art £34,483
National Geographic Society £16,667
NCB National Council for the Blind of Ireland £27,933
The Henry Luce Foundation £274,194
The Nature Conservancy £32,163
The Newby £1,724
The Research Society for Victorian Periodicals £13,779
The Society for Comparative Endocrinology £4,827
Werner-Greif-Museum £13,574
Overseas – Charities £8,226,643
Animal Charity Evaluators £6,789
Biochemical Society £2,000
Biological Process Science and Technology Co. Ltd £180,000
GlaxoSmithKline £30,160
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National Geographic Society £16,667
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The Henry Luce Foundation £274,194
The Nature Conservancy £32,163
The Newby £1,724
The Research Society for Victorian Periodicals £13,779
The Society for Comparative Endocrinology £4,827
Werner-Greif-Museum £13,574
Appendix 4

Research grants and other sources of funding (continued)

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<th>Source / Organization</th>
<th>Value (£)</th>
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<td>National Centre for the Replacement, Refinement and Reduction of Animals in Research</td>
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<td>Natural Environment Research Council</td>
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<td>Research Councils United Kingdom</td>
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<td>Science and Technology Facilities Council</td>
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<td><strong>UK – Universities etc.</strong></td>
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<td>ARUK Scotland Network Centre</td>
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<td>British Association for Japanese Studies</td>
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<td>Cardiff University</td>
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<td>Edinburgh Napier University</td>
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<td>Energy Technology Partnership (ETP)</td>
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<td>Faclair na Gaidhlig (Dictionary of the Scottish Gaelic Language)</td>
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<td>Institute of Latin American Studies</td>
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<td>Scottish Crucible</td>
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<td>Scottish Imaging Network: A Platform for Scientific Excellence</td>
<td>£45,000</td>
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<td>Welsh Thoracic Society</td>
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<td><strong>Grand Total</strong></td>
<td><strong>£373,245,107</strong></td>
</tr>
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</table>

**Note:** The above list sets out the total project value of research grants funded from these sponsors. The sponsor will have contributed this whole amount, with the exception of some governmental sources (including research councils) and charitable sources, who fund the majority, with the balance being received indirectly via the Scottish Funding Council.

**Please also note:** rounding has been applied to the figures.
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