Introduction
From The
Vice-Chancellor

It is an honour to lead the University of Sheffield – a University which has for over a century been a centre of discovery and understanding. The University of Sheffield was endowed from the start with the best qualities of the citizens of the city of Sheffield who founded it – excellence and innovation, friendliness, independence of thought and a preference for action over rhetoric.

Our University also prides itself on its world-class partnerships with outstanding institutions and business organisations around the world. We believe that to really make a difference, we must take knowledge out of the University and share it with others. This process itself challenges our thinking, helps us to ask better questions and to refine our research.

The results of this collaborative approach are found in all subject areas and in innovative partnerships between disciplines to address the great questions and challenges facing our world today. They also make the University of Sheffield an exciting place to work and to study, a place which blends all the qualities of a leading University with a deep desire to shape our world for the good. Our aim has long been to improve the world by seeking to understand it better. The University’s motto Rerum Cognoscere Causas means ‘to know the causes of things’. We remain committed today to our original mission of delivering change through the power of ideas and knowledge.

From Nobel Prize winners to global partnerships, from life-changing research to outstanding student achievement, the University of Sheffield continues to make a significant impact.

Professor Sir Keith Burnett
FRS, CBE
Vice-Chancellor
Our University's story began over a century ago, funded by public subscription from large donations to a penny collection among the people of Sheffield. Our founders' vision was to establish a university that would benefit their economy, health and children.

This generosity and inspiration saw our University grow out of three different institutions to form the University College of Sheffield in 1897. In 1905 the College was granted its Royal Charter and became the University of Sheffield.

In July of 1905 King Edward VII and Queen Alexandra opened the impressive red brick Firth Court building which today is still at the heart of our University and a Sheffield landmark.
Over a century later, the original vision still inspires. The University of Sheffield has established itself as one of the largest and best-regarded universities in the UK. Consistently positioned in the top 75 in the World University Rankings, we have an annual turnover of £400m.

Our University has over 24,000 of the brightest students from 117 countries coming to learn and employs over 6,000 staff. Nearly 6,000 of our students are from overseas, making up 24 per cent of our total student population.

A member of the Russell Group, the University of Sheffield has a reputation for world-class teaching and research excellence across five faculties: Arts and Humanities; Engineering; Medicine, Dentistry and Health; Science; and Social Sciences. We also have an international faculty, City College. Based in Thessaloniki in Greece, City College delivers programmes of study in a number of countries across South East and Eastern Europe, attracting students from across the Balkan region and beyond.

The University of Sheffield has been praised for its achievements and was named University of the Year in the UK Times Higher Education Awards 2011 for its exceptional performance in research, teaching, access and business.
An International Centre Of Excellence

Our people, our partners and their combined knowledge and passion are what gives our University its global reputation as a centre of excellence.

Our alumni have gone on to hold positions of great responsibility and influence all over the world, making significant contributions in their chosen fields. Among our former students and staff, Sheffield boasts five Nobel Prize winners, an Olympic gold medalist and Britain’s first female astronaut.

Jessica Ennis-Hill, CBE studied psychology, graduating in 2007 and receiving an honorary degree in 2010. She is the current Olympic heptathlon champion.

Helen Sharman, OBE studied chemistry, graduating in 1984. She was 28 years old when she became the first British person in space. Helen beat more than 13,000 others to become the UK cosmonaut on a Soviet space mission. In May 1991, she spent eight days on the Mir Space Station.

Jeffrey Wadsworth studied metallurgy, graduating in 1972 and gaining a PhD from Sheffield in 1975. In 2002, he joined Battelle and served as a member of the White House Transition Planning Office for the US. Department of Homeland Security. He has been President and CEO of Battelle Memorial Institute since January 2009. Battelle is the world’s largest nonprofit research and development organisation, executing about $6.5 billion of work annually and employing about 22,500 people.

Dato’ Lela Negara Tun Arifin bin Zakaria studied law and graduated in 1974. He is currently the Chief Justice of Malaysia. He has received numerous honours – most recently in 2010, Sultan Azlan Shah of Perak conferred him the Knight Grand Commander of the Most Illustrious Order of the Perak State Crown (SPMP).
Nobel Prize Winners

1945 Medicine / Physiology Prize

**Lord Florey**

Joseph Hunter Chair of Pathology 1932–35

For isolating and purifying penicillin and discovering its therapeutic effect in infectious diseases.

1967 Chemistry Prize

**Lord Porter**

Professor of Physical Chemistry 1955–66

For his discovery of flash photolysis, a technique that enabled chemists for the first time to measure the speed and mechanism of certain reactions that occurred too quickly for detection by conventional methods.

1993 Medicine / Physiology Prize

**Sir Richard Roberts**

BSc Chemistry 1965, PhD 1968

For his discovery of 'split genes', thereby disproving the long-held theory that genes in plants and animals were made up of continuous segments of DNA. This has important biological, medical and evolutionary consequences.

1996 Chemistry Prize

**Sir Harry Kroto**

BSc Chemistry 1961, PhD 1964

For discovering a new form of carbon, known as 'buckminsterfullerene', which stands alongside the two other well-defined forms, diamond and graphite.

1953 Medicine / Physiology Prize

**Sir Hans Krebs**

Lecturer in Pharmacology 1935–45
Professor of Biochemistry 1945–54

For the development of the Krebs Cycle, which explains how life-giving energy is set free in cells by oxidation of glucose to carbon dioxide and water.
We work in partnership with other leading universities, governments and multinational companies to tackle the biggest challenges facing the world today. We recognise that partnering with external collaborators is not an end in itself, but a means to achieve what we cannot achieve on our own; it is essential and enriches our research.

Worldwide Partners For Change

Manufacturing A Global Success

At the University’s Advanced Manufacturing Research Centre (AMRC) we are partners with over 75 companies including global aerospace giants Boeing and Rolls-Royce. The AMRC partnership builds on the shared scientific excellence, expertise and technological innovation of the world’s leading aerospace companies and the world-class research of our Faculty of Engineering. The centre was chosen from over 17,000 companies globally to be Boeing Supply Chain Company of the Year 2010. The first time this honour has been given to the UK.
Partners in Providing Food Security

Plant scientists at our University are coordinating an international effort to develop a strain of rice that can resist one of the world’s most devastating crop parasites, the Striga parasite, to bring greater food security to millions of people in Africa.

The team, led by Professor Julie Scholes of the University’s Department of Animal and Plant Sciences, includes researchers from the UK, Tanzania, Kenya, Uganda and Columbia.

Modelling the Human Brain

A major European project, led by our researchers, will develop sophisticated image-based biophysical models of the human brain to enable early diagnosis of dementia and help doctors predict the progression of the disease.

The four-year, €18 million project is funded through the European Union and involves universities and industrial partners from the UK, France, Germany, Switzerland, Finland, Spain, Norway, Austria, the Netherlands and Portugal.

Sharing Our Values

We are keen to forge links with peer universities and international organisations that share our values. We are a founder member of the Worldwide Universities Network and have well-established partnerships with a number of universities in the UK and abroad. Our collaborations extend our global reach and enhance our input to regional, national and international activities.

A Global Team Player

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Research Excellence and Impact

Internationally excellent research is conducted across all areas of the University’s faculties. Over the last three financial years, we have won new research grants worth over £430m. A recent key development was the opening by Her Majesty the Queen in 2010 of a new state-of-the-art £18 million research institute in translational neuroscience.

Cutting-edge Research Institutes

The Sheffield Institute for Translational Neuroscience (SITraN)

The first centre of its kind in the world, the Sheffield Institute for Translational Neuroscience (SITraN) brings together scientists and medical specialists who are dedicated to researching the causes of and cures for neurodegenerative disease – motor neurone disease (MND), Parkinson’s disease, Alzheimer’s disease and spinal muscular atrophy.

SITraN has the potential to have a major impact on the visibility of neurodegenerative diseases, bringing new treatments and new hope to patients and carers in the UK – together with the wider international community.

The Humanities Research Institute (HRI)

The HRI is an interdisciplinary institute for the arts and humanities, specialising in digital publishing.

Some of the HRI’s most high profile projects involve the digitisation of important social, historical and cultural documents such as the Old Bailey court proceedings online, the letters of Mozart and the medieval Froissart Chronicles.

The Sheffield Political Economy Research Institute (SPERI)

SPERI brings together leading international researchers, policymakers, journalists and opinion formers to develop new ways of thinking about the economic and political challenges posed for the whole world by the current combination of financial crisis, shifting economic power and environmental threat.

Its research agenda addresses some of the major political economic issues of our day, notably the British growth crisis, the building of a new political architecture for the Eurozone, the G20’s leadership and management of the global political economy and the role of other leading global institutions.
The University boasts outstanding staff whose research and teaching excellence has a global impact. Leading researchers teach in all our departments. They give our students the support they need to achieve great things. We want to attract and retain people with ambition and to provide them with the opportunities to realise their dreams and develop their talents. Our staff have been recognised nationally and internationally for their research and teaching achievements. Many of our academics have been honoured by academies including: the Royal Society, the British Academy, the Academy of Social Sciences, the Royal Geographical Society, the Royal Institute of Navigation, the Royal College of Physicians and the Academy of Medical Sciences.

Professor Tim Birkhead FRS

Professor Tim Birkhead was named UK Bioscience Teacher of the Year by the UK Society of Biology in 2013 in honour of three decades of inspirational teaching matched by a long-standing passion for research out in the field.

Professor Birkhead is a Fellow of the Royal Society and his most distinguished research is in the field of behavioural ecology, focusing particularly on birds.

Outstanding Teaching

Professor Patrick Fowler FRS

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Outstanding Teaching

Staff Success And Acclaim

Outstanding Teaching

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Outstanding Teaching
Leading Minds In The World

Low Carbon Future
Professor Lenny Koh

Professor Lenny Koh, of the University’s Centre for Energy, Environment and Sustainability (CEES), Logistics and Supply Chain Management Research Centre (LSCM) and the Management School, is a leading authority in the supply chain field. Her research and work on the Supply Chain Environmental Analysis Tool (SCEnAT) has been used to shape supply chain strategy and policy.

SCEnAT, which aims to help companies cut their carbon emissions, is already being used by regional, national and international firms. The tool creates a database of carbon usage, arming businesses with ways to reduce their carbon emissions and associated costs, providing interventions, as well as offering guidance and support.

Fighting Disease
Professor Pamela Shaw

A Fellow of the UK’s Academy of Medical Sciences, Professor Shaw has led a major programme of research investigating the underlying causes of motor neurone disease (MND).

Under her leadership, the Sheffield Institute for Translational Neuroscience (SITrNS) was established.

Climate Change
Professor Edward Hanna

An international team led by Professor Hanna has shown that unusual changes in atmospheric jet stream circulation caused the exceptional surface melt of the Greenland Ice Sheet in summer 2012.

Professor Hanna, a Professor of Climate Change, is a Fellow of both the UK’s Royal Meteorological and Royal Astronomical Societies. He has published over 60 research papers in international peer-reviewed journals related to climate change.
Providing a future workforce

The AMRC Training Centre is part of the University of Sheffield AMRC group and in collaboration with industry partners provides training in the practical and academic workforce skills that UK manufacturing companies need to compete globally. Courses range from apprenticeship tuition through to doctorate and MBA level qualifications.

Ensuring students are employer ready

Achieve More is an exciting new addition to our undergraduate curriculum. It provides opportunities for students of varying disciplines to work together in developing potential solutions for a range of real-life global problems. It’s a great way for students to use their knowledge, acquire new skills, encounter new ideas and to work with prospective employers.
A University for the future

As the University continues to grow, both in terms of reputation and in student and staff numbers, there’s an increasing need to improve the quality of our buildings and expand the campus. The Campus Masterplan is our vision for the next decade. It will help us create the best possible environment for our students and staff whilst improving links with the local community and the city.

A vibrant international community

Our groundbreaking #weareinternational campaign which highlights the crucial value of international students to the UK has now been backed by over 100 universities, education institutions and international organisations. It aims to ensure that the UK remains welcoming to overseas students and UK universities can maintain their traditions of learning within vibrant international communities.
Our Guiding Principles

What We Stand For

Our purpose has long been to improve the world by seeking to understand it better. The University’s motto, “Rerum Cognoscere Causas”, means ‘to discover the causes of things’.

We now define the University’s mission in more contemporary language as ‘to discover and understand’. We remain committed today to the goal of changing the world for the better through the power and application of ideas and knowledge.

Our guiding principles in our mission are –
Achieving Excellence; Cultivating Ambition; Working Together; Making a Difference; Protecting the Future and Leading the Way.
Excellence indicates the very highest quality, significantly exceeding the norm, as reflected by the ‘Made in Sheffield’ stamp. It reflects a refusal to accept the ordinary.

The power of solar magnetic tornadoes

What we know about solar tornadoes could change the world. Our recent discoveries pave the way for new technologies to deliver clean, safe and renewable fusion energy.


The biggest challenge under the sun

Using a £2.6m donation from Sheffield alumnus Jeremy Grantham, we are setting up the Grantham Centre for Sustainable Futures. Part of Project Sunshine, the new centre will focus on advancing the science of sustainability and help inform debate on how humans can live more sustainably.

We set challenging and important goals. We are willing to grapple with the most difficult intellectual and practical problems of our time and are not easily daunted.

Cultivating Ambition

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Engineers break down barriers for Kieron

Annual projects and competitions in our Faculty of Engineering are improving students’ employability and helping improve people’s quality of life. This customised kitchenware was designed by our students to help Kieron, who suffers from cerebral palsy, get on with his favourite activity – cooking.

International collaboration unlocks the universe

The discovery of a subatomic particle thought to be the elusive Higgs boson is a significant breakthrough in our understanding of the fundamental laws of physics. Scientists and technicians from the University are involved in the world’s largest physics experiment at CERN, the European Organisation for Nuclear Research near Geneva.

Universities are one of society’s engines of change. We seek to create, discover, share and apply knowledge through teaching and research in ways that make a difference and ensure that our work has a genuine cutting-edge.

Working Together

Solutions to important problems depend increasingly upon collaboration: between staff and students, across disciplines and in partnership with others locally, nationally and internationally.

Making A Difference

Solutions to important problems depend increasingly upon collaboration: between staff and students, across disciplines and in partnership with others locally, nationally and internationally.
Testing treatments in a virtual world

In collaboration with researchers, engineers, clinicians and industrial partners from around the world, we are creating patient-specific computer models of human cells, organs and systems that will bring new understanding of disease, support the discovery of new drugs and help visualise the effects of different choices of treatments.

Sheffield-born space mission to measure the world’s forest

A unique space mission that will exploit our research and enable the Earth’s global forest biomass to be measured with unprecedented accuracy is scheduled to launch in 2020. Approved by the European Space Agency’s (ESA) Earth Observation Board, the €470 million BIOMASS mission will produce the first high-resolution accurate maps of tropical, temperate and boreal forest biomass from space.

Protecting The Future

We have to think beyond the short term. In order to safeguard our core academic activities and the student experience for the future, we must ensure that our research and teaching are sustainable.

Leading The Way

We believe that universities have a responsibility to look ahead to important new problems and to offer intellectual leadership to society in response to them.
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