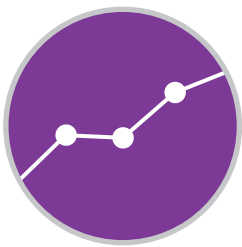




The University of  
**Nottingham**

UNITED KINGDOM • CHINA • MALAYSIA

# The Economic Impact of Britain's Global University



# Contents



## Chapter 1

We drive economic growth  
04–07



## Chapter 2

We produce extraordinary talent  
08–11



## Chapter 3

We are a bridge between  
Nottingham and the world  
12–19



## Chapter 4

We make discoveries  
that define today and  
transform tomorrow  
20–29



## Chapter 5

We are open to our city  
and support our community  
30–35

The Trent Building,  
University Park Campus, UK

# Introduction

## Vice-Chancellor's foreword

When Sir Jesse Boot opened the Trent Building and University Park in 1928, he had a vision of a University that would “spread the light of learning and knowledge, and bind science and industry in unity” to ensure “the prosperity of the nation and the welfare of our fellow citizens”. Today, the results of the 2015 Economic Impact Study show that the University is living up to this ambition: we are at the centre of the current and future prosperity of the city of Nottingham.

The Technology Entrepreneurship Centre, built on the historic Raleigh factory site, now our Jubilee Campus, is just one example of our plans to put Nottingham at the heart of global higher education and innovation. The University is not just located within Nottingham, the East Midlands, UK and two key countries in Asia, it is a University for these places: for the prosperity and welfare of our fellow citizens, as Sir Jesse Boot intended.

At the heart of the University is our commitment to the people who live and work in and with our six campuses, which stretch over five regions, three nations and two continents – we truly are a home for talent across the globe.

It is this talent which creates the economic impact detailed in this report. It is their work, their research, their study, their volunteering, their relationships and their connections with our communities in the city of Nottingham and across our global network of campuses that amplify our impact.

In return, it is you—our partners, neighbours and colleagues—who I invite to visit, explore and engage further with the University as a result of this report. We have identified five ways in which our activities have a positive economic, social or cultural impact:

- We drive economic growth
- We produce and nurture extraordinary talent
- We are a bridge between Nottingham and the world
- We make discoveries that define today and transform tomorrow
- We are open to our city and support our community

## About this report

We commissioned leading independent economists, Oxford Economics, to undertake an evaluation of the economic, social and cultural impact we have on our city, region and nation. The full report, with detailed explanations of methodology, references and data sources is available at

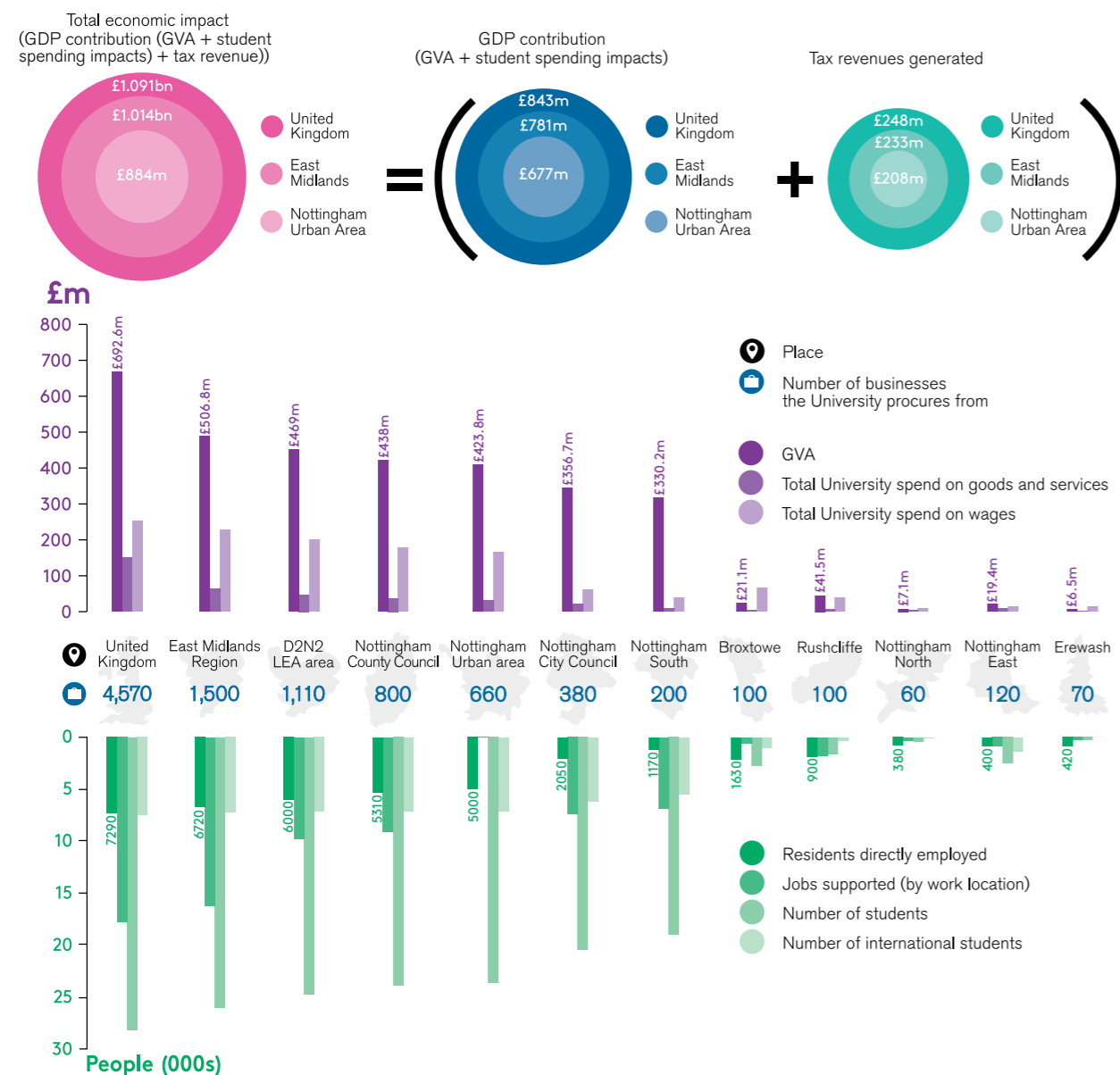
[www.nottingham.ac.uk/economic-impact](http://www.nottingham.ac.uk/economic-impact)

From the outside, universities can be seen as complicated places – with the economic and social impact they have on wider society sometimes underestimated. I am, therefore, particularly delighted to see that The University of Nottingham's ongoing commitment to making a significant contribution to the prosperity and wellbeing of our local, civic and regional communities is so effectively demonstrated by this report.

Professor Sir David Greenaway

# We drive economic growth

## Our economic impact in detail



£  
1.1bn

total economic impact generated  
by the University across the UK every year

The University of Nottingham: our students, staff and their visitors, our research and expenditure and the tax receipts we generate all combine to create a significant annual economic impact.

The University's direct expenditure on goods, services and wages all creates "multiplier effects" throughout the economy, and our staff further boost the city and regional economies by spending their wages on living costs and services provided by businesses across Nottingham and the East Midlands.

In order to accurately understand the way in which The University of Nottingham drives economic growth, Oxford Economics have looked at the added value of our institution to the city, region and UK. Therefore, the economic "impact" of our institution is only the additional benefit these places receive from our existence and activities.

For example, 77% of the University's students would not have come to Nottingham if the University did not exist, whilst Nottingham's global reputation brings over 7,000 international students to study and live in the city.

**"Total economic impact"** refers to the University's "GVA" created from its own expenditure and activities, added to both the economic benefits derived from our students' spending and the value to the economy of visitors to these students and the University.

**Gross value added, (or GVA)**, comprises the profits, business rates and employee compensation a company or industry creates or pays. UK GDP is gross value added summed across all firms in the UK economy, plus net taxes and subsidies.

**"Jobs supported"** refers to direct employment from the University, as well as the jobs created in the wider economy as a result of our economic impact (as defined above).

## Case Study

### The University helped anchor the city's economy and protected jobs throughout the recession

Despite the recent economic downturn, the University was able to protect employment levels and help consumer confidence in the Nottingham and East Midlands economies. Indeed, we have increased our workforce in 13 out of the last 14 years and so, by 2014, employment at the University had increased by 13% above pre-recession levels—in distinct contrast to the 0% growth seen in the East Midlands region. 92% of these jobs are based in the East Midlands—and 53% of these posts were for administrative, clerical, manual or technical staff—meaning the University supports employment at all levels of the job market.

Consequently, the importance of The University of Nottingham to the city's economy and labour market should not be underestimated. One in every 24 jobs in Nottingham is reliant in some part on The University of Nottingham. To put this into context, a study in 2013 by Oxford Economics found that only one in every 50 jobs in Birmingham is reliant in some part on the University of Birmingham.


# A billion-pound contribution

## The University's impact on our city, regional and national economies




We have worked with The University of Nottingham Students' Union over a number of years and have found our relationship and business go from strength to strength. The relationship we have built makes us feel more like a stakeholder rather than a corporate client.

Omais Javaid, Director, DG Taxis

**Nottingham in numbers**

**The University's economic impact on our city**



**£677m**  
total economic impact generated by the University across Nottingham every year

**£208.3m**  
was also generated in tax receipts, on top of our economic impact – meaning the University's total economic activity in Nottingham City and urban area was worth £884m to the UK in 2013/14.

**5%**  
of Nottingham's entire economy is driven by University activity.

**37%**  
of the University's total impact in the city is made up of the off-campus spending of our students.

**1 in 24**  
jobs in Nottingham is reliant in some part on The University of Nottingham.


**14,000**  
jobs supported in Nottingham annually by the University

**69%**  
of our employees live in Nottingham.

**£10,933**  
per year of extra economic benefit to the Nottingham economy is delivered every year, by every student.

**£32.9m**  
of our expenditure supported over 660 suppliers based in Nottingham.

**The University's economic impact on our region**



**£781m**  
total economic impact generated by the University across the East Midlands every year

**1%**  
of the entire East Midlands' GDP of £90.4bn in 2014 was supported by the University.

**6th**  
biggest employer of people living in Nottinghamshire with 7,293 members of staff working at our campuses, ahead of major companies like Boots and Experian.

**7th**  
largest 'business' in the city and county: the University's turnover in 2013/14 was £571m, exceeding that of Capital One (£512m), Center Parcs (£314m), Paul Smith (£203m) and Nottingham Forest (£16.5m).


**16,000**  
jobs supported in the East Midlands annually by the University

**£233m**  
was also generated in tax receipts, on top of our economic impact – meaning the University's total economic activity in Nottingham City and urban area was worth £884m to the UK in 2013/14.

**92%**  
of our employees live in the East Midlands.

**£66.6m**  
–nearly half of our total spending on goods and services–was sourced from 1,500 suppliers in the East Midlands.

**The University's economic impact on our nation**



**£1.1bn**  
total economic impact generated by the University across the UK every year

**97%**  
of University spending was with UK suppliers, out of a total of £156.5m on goods and services in 2013/14.

**18,000**  
jobs supported in UK annually by the University.

**£106.3m/year**  
boost provided to the UK economy through international students studying at The University of Nottingham



# We produce extraordinary talent

The University of Nottingham is one of the world's foremost educational establishments – ranked 70th by the QS World University Rankings in 2015. We are a founding member of the prestigious Russell Group. For over 100 years, we have sought to educate extraordinary minds from Nottingham and the region. Today, we bring the best and brightest from all over the world to study at our campuses – an influx of talent, ideas and innovation that brings a huge range of economic, social and cultural benefits to our communities.

Over the last three years, our global graduates have consistently been rated as the most sought after by the UK's top graduate recruiters, with the University ranked within the top three since 2013. What Uni also rated us as the top University in the UK for job prospects in 2015.



Nottingham certainly benefits from having a large student population. Our members—retailers across the city—appreciate that their spending makes a valuable contribution to their businesses... their presence adds to the general vibrancy of the city.

**Jeff Allen, Chairman of the Nottingham Business Improvement District (BID)**

## Case Study



### Sublime Science

A University of Nottingham graduate whose business makes science fun for children won a £50,000 investment when he appeared on BBC2's *Dragons' Den* earlier this year. Marc Wileman, founder of Sublime Science, made an unusual start to his pitch by firing smoke rings at the five entrepreneurs. He was looking for a £50,000 investment in exchange for a ten-per-cent stake in the Leicester-based business, which runs parties at which youngsters can get involved in fun experiments. Since starting the company six and a half years ago, he has made science fun for more than 280,000 primary school children, with an expected turnover of £750,000. Needless to say, two of the Dragons decided to invest.



The support and encouragement The University of Nottingham gave me through initiatives such as the Ingenuity Lab definitely made a huge difference to me in becoming an entrepreneur and setting up my own business.

**Mr (Mad) Marc Wileman, Founder and CEO, Sublime Science**



## Nottingham in numbers

**Students: we bring the brightest and best students to Nottingham...**



# 30%

of all international students attending East Midlands' universities in 2013/14. The 8th-largest international student body in England, and the largest in the region.

# 29,670

students attended The University of Nottingham in 2013/14.

# 77%

of our students were attracted to Nottingham by the University, or chose to stay here instead of moving away to study.

# 24,360

"additional" students learn, live, study and spend in the East Midlands because of The University of Nottingham.

**Graduates: we provide the city, East Midlands and UK with the next generation of talent...**



# 16%

of our alumni are still working in the city, and another 10% in the rest of the region 10 years after graduation.

# 1/3

of our employed graduates have found jobs in the region six months after graduation.

# 250,000

University of Nottingham alumni now live in 195 countries across the world, providing the University and Nottingham with a global network of advocates and friends.

# 42%

of graduates in Medicine, Education and associated courses will stay in Nottingham, compared to 20.5% of graduates on other courses.

# 830

graduates took up key worker roles in Nottingham and the East Midlands after graduation:

390 became nurses  
240 became teachers  
141 became doctors

# £150m

raised by the University's Impact Campaign by 2015.

**Staff: we employ extraordinary people**



# 6th

largest employer in Nottinghamshire.

# 2.2%

of total employment in Nottingham is directly provided by the University.

# 68%

of employees live in the wider Nottingham area, embedded in their local communities.

# 7,293

employed in 2013/14:

48% are academics undertaking teaching and research  
43% are employed in administrative, clerical or manual jobs  
9% are employed in technical roles

# Nottingham's People

250,000

alumni from 195 different countries<sup>1</sup>

- 67% United Kingdom
- 15% Asia
- 7% Europe (non-UK)
- 11% rest of the world

40,156

students studied at Nottingham in 2013/14

- 29,670 in the UK
  - 75% from the UK, of which
    - 26% from the East Midlands, of which
      - 13% from Nottingham,
      - 25% from overseas
- 2,300 students volunteered in 2013/14
- 4,548 in Malaysia (3284 Malaysian, 1264 international)
- 5,848 in China (5327 Chinese, 461 international)

8,293

members of staff

- 7,293 in the UK
  - 52% administrative, clerical, technical or manual
  - 48% teaching and research
  - 130 staff volunteer in the University's widening participation programmes
  - 97% live in the East Midlands
- 587 in Malaysia
- 513 in China

38

Graduate start-ups in 2013/14



<sup>1</sup> Figures from the 190,000 registered alumni

Group of graduates at summer Graduation 2015



# We are a bridge between Nottingham and the world

The University of Nottingham is the most globally-engaged University in the UK. We have 9,226 overseas students studying at our UK campuses – giving our campus one of the most cosmopolitan environments of any UK university. 26% of our UK students will have an overseas learning experience, leading the sector with their global outlook.

We were the first UK University to establish an overseas campus, in Malaysia, and the first overseas university in the world to open a campus in China. We now have nearly 11,000 students studying for British degrees in Asia. We are flying the flag for UK universities and the UK economy by exporting excellent education with scale, at source.

Higher Education is now the UK's 5th-biggest export industry, generating an estimated £10.7bn a year and contributing 2.8% of UK GDP.<sup>2</sup> To put that into perspective, in China only the car industry drives more export value to the UK economy.

As the city's world-class higher education institution, The University of Nottingham's reputation for global excellence helps boost the city's reputation overseas.

## Case Study



### Asia Business Centre

Over the last two years, the University has invested £440,000 in establishing the Asia Business Centre. It has been extremely successful in securing contracts with Asian businesses, for whom the University is providing services such as research and development, consultancy and executive education. It also provides employment opportunities for University graduates with world-leading Asian companies.

For example, the Chinese aerospace giant AVIC has signed an agreement with The University of Nottingham to develop a £3m innovation centre in Nottingham. The University's relationship with the company has led to 100 UK-China placements for University students.

<sup>2</sup> Figures from Universities UK 2011-12

One of two magnificent Chinese stone lions given as a gift to the University from our sister city of Ningbo, China.

## Case Study



### Reinventing the civic relationship for a globalised world – how the University supports Nottingham City Council's trade and partnerships

This autumn saw the largest ever city-to-city UK-China delegation. Over 100 civic leaders, businesspeople (representing businesses with a combined sales income of over \$2bn) and educationalists from Ningbo visited Nottingham city and University. In November, the University is jointly leading a reciprocal delegation of Midlands businesses to Shanghai and Ningbo with the UKTI, Nottingham City Council and Sir John Peace. A bronze cast of Nottingham's famous Robin Hood statue will be presented to Ningbo to mark ten years of civic relationships between the two cities.



The University of Nottingham's global reach and incredible reputation overseas (as well as its quality both for teaching and research) is absolutely fundamental to the city's brand, and to attracting inward investment, supporting trade and developing our city's cultural diversity. What the University has achieved in developing its overseas presence is remarkable, and it is one of the city's key assets.

**Cllr Nick McDonald, Executive Member for Jobs, Growth & Transport, Nottingham City Council**



## Nottingham in numbers

**Our international students boost the UK economy and support jobs**



### £129.7m

economic impact generated by the off-campus spending of our international students in the Nottingham, East Midlands and UK economies

### £88.5m

in fees contributed to the University by international students

### 16%

of all spending by Chinese visitors to the East Midlands region who were visiting friends and relatives in the region is attributed to the University

### 2,200 jobs

created as a result of the presence of our international students in the UK

### £2.0m

spent in the UK last year by visitors to our international students living in the city and surrounding area, which supported over 50 jobs and generated over £400,000 in tax revenues in 2013/14

**We support a vibrant, cosmopolitan Nottingham**



### 150 countries

or 77% of the world's nations were represented by students at The University of Nottingham in 2013/14 and 29 students were the only member of their nation represented at the University.

### 9,226

international students studied at Nottingham in 2013/14.

### 8th

most successful university at attracting international students to study in the UK and 1st in the region.

### over 80%

of our research was rated as either "world-leading" or "internationally excellent" – the two highest ratings in the UK REF 2014.

### £5.2m

secured for the University from Asian businesses by the Asia Business Centre – with a further £17.5m currently being negotiated for 2015/16.

**We fly the flag for Nottingham across the world**



The University is an international gateway for the city and region, as well as directly benefitting local economies. The overseas campuses in China and Malaysia attract inward investment to Nottingham and support outward trade missions to fast-growing Asian economies. Over the last decade, the value of trade between China and the East Midlands increased from £250m in 2006 to £1.3bn in 2013.<sup>3</sup>

Our international campuses also allow the University to directly support Nottingham City Council's international trade and investment campaigns in Ningbo (China), Chandigarh (India) and Karlsruhe (Germany).

### 250,000

alumni live in over 195 countries across the world.

### 10,396

students studied for Nottingham degrees at our campuses in Malaysia and China in 2014/15.

### 78%

of graduates now living abroad have recommended or would recommend studying at and living in Nottingham.

### 1st

in the UK for the number of our students who choose to study overseas, via ERASMUS or other schemes.

### 50%

of students studying Mandarin Chinese for credit in the UK study at the University's Confucius Institute.

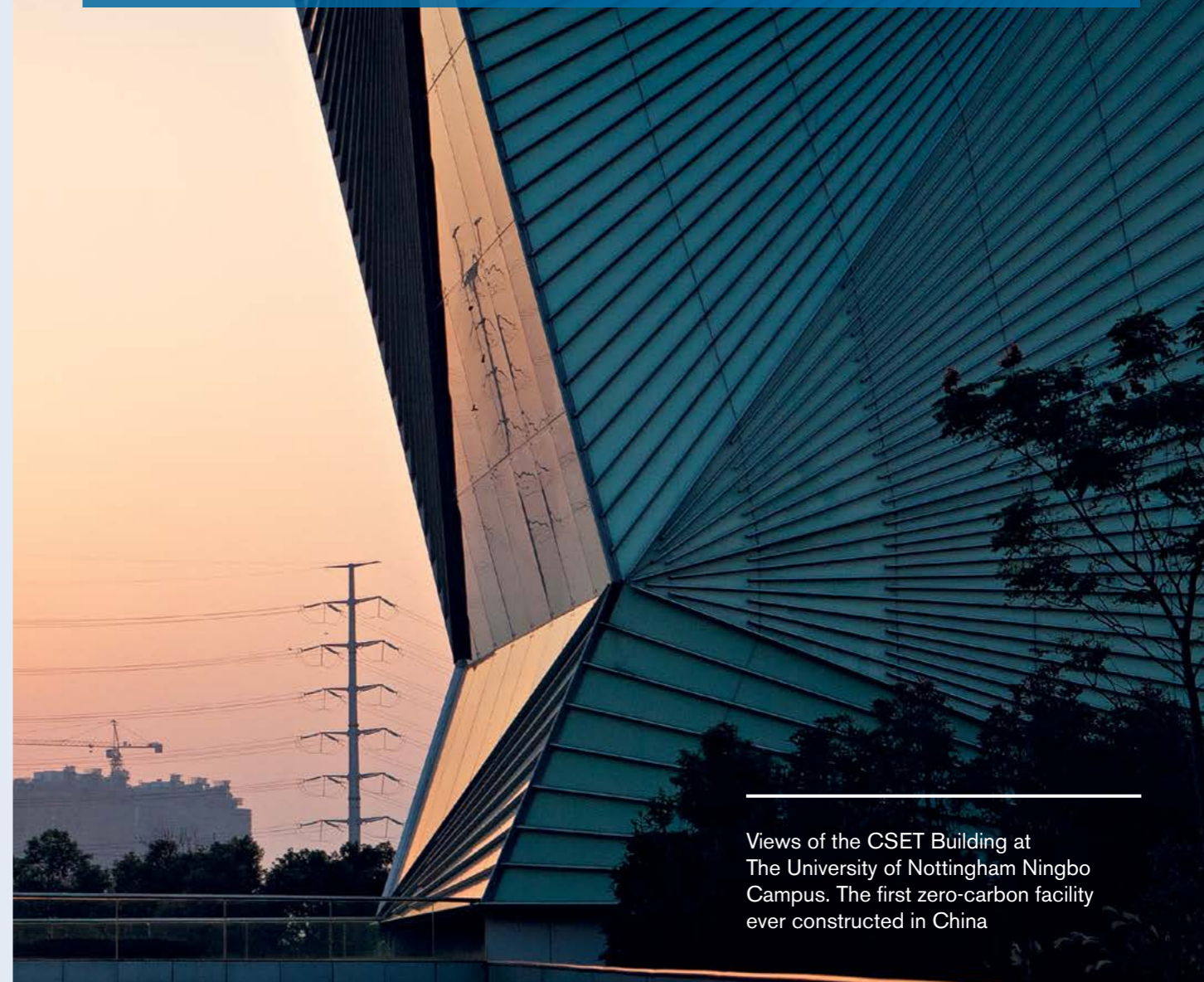
### 40%

of all UK students who study in China are from The University of Nottingham.

<sup>3</sup> Figures from the RDA via HMRC and CBBC

# Focus on: The University of Nottingham Ningbo China, UNNC

## Nottingham's link to the world's fastest growing economy



Views of the CSET Building at The University of Nottingham Ningbo Campus. The first zero-carbon facility ever constructed in China



of UNNC graduates  
employed or in further study  
six months after graduation

The University of Nottingham was the first foreign University to establish a campus in China. The establishment of The University of Nottingham Ningbo China (UNNC) in 2004, on grounds occupying 144 acres in the city of Ningbo and with the full support of the Chinese government, marked a historic moment in the opening up of Chinese Higher Education.

UNNC's student population has grown from an initial 260 to almost 6,000 today – due to rise to 8,000 by 2017. Every year, UNNC admits over 1,200 of the most talented students, the top 5% of their generation, from across China. This recruitment is sustained by the employment opportunities a UNNC education provides: almost two thirds of graduates find employment in Fortune Global 500 companies, government or public institutions. The Ningbo campus has also allowed The University of Nottingham to build its reputation and expand its network in China, resulting in a growing number of Chinese students coming to Nottingham to study.



In its first 10 years, UNNC has grown from a budding project to a blossoming educational success. It has done a superb job in bringing first-class educational resources to China. I hope in its next decade, UNNC can build on what it has achieved and continue to serve as a beacon of higher education cooperation between our two countries.

**The Chinese Ambassador to the UK,  
His Excellency, Mr Liu Xiaoming, 2014**



### Nottingham in numbers

**£80m**

estimated annual value of presence  
in China to the University

**98%**

of UNNC graduates employed or in  
further study six months after graduation

**5,848**

students

**461**

students from outside China

**640**

staff

**144**

acre campus

### Case Study



#### Helping UK businesses tap into China's talent pool

British integrated circuits (IC) company, Sondrel, designs circuits for the semiconductor industry. In 2013, in the first partnership of its kind, Sondrel launched a programme at UNNC to train the IC designers of the future in China.

The programme at the University's Ningbo campus was created after Sondrel identified a lack of IC designers in China with the skills the company needs to continue its rapid expansion. The aim of the programme is to plug the talent gap and improve China's ability to compete globally in the IC design market. To date, over 100 students have taken part in the programme and have gone on to take up positions in Sondrel operations around the world.

### Case Study



#### The Ningbo Nottingham International Academy for the Marine Economy and Technology (IAMET)

The University of Nottingham is working with the Ningbo government on a major international project to build on the city's reputation as a centre for the marine industry. IAMET connects our world-leading research and academics with Government and industry experts to deliver innovative programmes, raising over £2.3m for collaborative research projects in its first few months. These include research and development for new renewable energy storage technologies, manufacturing from recycled plastics, and hybrid power generation for ships.



Higher education is one of the UK's most important exports to China and The University of Nottingham is at the forefront of this drive. It is doing fantastic work to build strong partnerships with Chinese institutions and provide thousands of local students with world-class British degrees.

**Rt. Hon. Anna Soubry MP, Minister for Small  
Business, Industry and Enterprise, 2015**



Students relaxing at The University of  
Nottingham Ningbo Campus, UNNC

# Focus on: The University of Nottingham Malaysia Campus, UNMC

The first ever UK University  
overseas campus – celebrating  
15 years of success

The University of Nottingham Malaysia Campus was the first-ever campus of a British university to be established outside the UK, and is located 30km from Kuala Lumpur.

Today, UNMC is home to over 4,500 students and 587 staff. It has one of the highest graduate employment rates in Malaysia, with over 92% of graduates employed or in further study six months after graduation.

UNMC is world-renowned for its Crops for the Future research. This programme, supported by the Malaysian government, focuses on researching crops that will both generate income and feed the poorest people in developing regions of the world.

As well as undertaking world-class research, UNMC also engages with global businesses. MyResearch, UNMC's wholly owned subsidiary, enables Malaysian businesses to access research expertise at the University in order to develop business opportunities. Some of UNMC's prominent corporate partners include Aqua Genesis, Boustead Plantations, Havys Oil Mill, Innovax, Pharmaniaga, Shaz and Sime Darby.

The current Prime Minister of Malaysia, Datuk Seri Najib Tun Razak, is also an alumnus of The University of Nottingham (UK campus), and in 2012 hosted a visit by the British Prime Minister David Cameron to UNMC.

Views of The University of Nottingham  
Malaysia Campus, UNMC



UNMC was the first full campus of a British University overseas. It is a really pioneering partnership that sees the full breadth of the academic study and research here in Malaysia. UNMC represents the best of British and the best of Malaysia.

**Rt. Hon David Cameron MP,  
Prime Minister, United Kingdom, 2012**



## Nottingham in numbers

**£35m**

estimated annual value of our  
presence in Malaysia to the University

**92%**

of graduates are in employment or  
further study six months after graduating

**4,548**

students

**587**

staff

**125**

acre campus

**£7.5m**

annual income from Malaysian  
students in Nottingham

**£2.5m**

income generated through activity  
such as knowledge exchange with  
Malaysian partners

## Case Study



### Reducing the environmental impact of palm oil effluent

With its purpose-built Biotechnology Research Centre, UNMC is a world leader in the applied research of biotechnology products, particularly palm oil. The production of palm oil is a major industry in Malaysia, employing almost 500,000 people. However, effluent from palm oil mills is the major cause of pollution in Malaysia's rivers. A research project at UNMC has led to the development of a new bioreactor technology for the efficient power generation of biogas produced during the digestion of palm oil effluent. Once commercialised, it is hoped that this will result in a reduction in the amount of water pollution caused by palm oil mills, while also helping to provide much of the energy they require.

## Case Study



### Asia Aerospace City takes off thanks to Nottingham expertise

The University of Nottingham is lending its engineering expertise to an ambitious new aerospace centre in Malaysia. Asia Aerospace City, based in Kuala Lumpur, brings together the University's aerospace expertise with leading industrial companies and other leading research centres.

The partners are collaborating on research and technology, specifically on virtual reality, tooling supply chain development, repair and composite manufacturing. UNMC is contributing through research and development in the focal areas of composite manufacturing, tooling and manufacturing automation.



# We make discoveries that define today and transform tomorrow

The University of Nottingham is the beating heart of a research, development and innovation ecosystem that spreads out from the city of Nottingham across the East Midlands, seeded by the talent, expertise and invention flowing in and out of our UK campuses. All of this is underpinned by our commitment to world-class research.

In practice, this means that everyone, from budding entrepreneurs, Nottingham's SME community and major industrial partners such as Rolls Royce and GSK, are constantly collaborating with our community of innovators: students and researchers whose discoveries define today and will transform tomorrow.

With our Jubilee Campus and University of Nottingham Innovation Park (UNIP) home to one of the Government's four pilot University Enterprise Zones, Nottingham continues to build its reputation as the country's leading University for SME and enterprise collaboration. Facilities such as the Manufacturing Technology Centre provide resources and a high-quality environment for the development and demonstration of new technologies on an industrial scale. The recently announced Technology Entrepreneurship Centre is a £5m, 2,000msq incubation facility for up to 50 technology-based start-ups and early-stage SMEs to co-locate and collaborate with students and researchers.

## Case Study



### AncientBiotics

Dr Christina Lee, an Anglo-Saxon expert from the School of English, enlisted the help of microbiologists from the University's Centre for Biomolecular Sciences after discovering a 10th-century potion for eye infections from Bald's Leechbook, an Old English leather-bound volume in the British Library, to see if it really worked as an antibacterial remedy. Quite astonishingly, the remedy was found to kill the modern-day superbug MRSA, one of the most antibiotic-resistant bugs, which costs modern health services billions.

The team now has good, replicated data showing that Bald's eye salve kills up to 90% of MRSA bacteria in "in vivo" wound biopsies. They believe the bactericidal effect of the recipe is not due to a single ingredient but the combination used and brewing methods/ container material used.

This story alone generated over 1bn online hits across the world, with 50m shares across global media platforms – bringing international attention to the potentially game-changing contribution that Nottingham and UK research is making in this area. The research will shortly be published in *Nature*.

## Case Study



### Inventing MRI – and continuing to make discoveries that will save lives

Used in hospitals across the world, Magnetic Resonance Imaging (MRI) scanners have transformed diagnosis and treatment of diseases such as Cancer, Parkinson's, Multiple Sclerosis and liver disease.

Nottingham Nobel-Prize-winner Sir Peter Mansfield constructed the very first MRI scanner in the School of Physics at The University of Nottingham. Today, his ground-breaking research is still having a profound impact on the world of medical research and patient-management. In Oct 2014 the Government announced it was investing £7.7m in magnetic resonance imaging (MRI) scanning equipment at The University of Nottingham, with another £1.67m provided by the University, recognising the outstanding research that continues to take place in the birthplace of MRI.

Nottingham's annual LifeCycle charity fundraising effort will raise money to apply the University's world-leading expertise in MRI scanning to the study of dementia and other degenerative conditions of the brain. This will enable Nottingham researchers to be the first in the world to use this technology to understand the different ways in which dementia damages brain cells. A new leading-edge MRI scanner will be installed at the Queen's Medical Centre, which is thousands of times more sensitive than standard scanners. This technological breakthrough will pave the way for both earlier diagnosis and the development of treatment tailored for individual patients – potentially saving the NHS millions of pounds and saving countless lives in the process.



AncientBiotics was an absolutely fascinating project and was a wonderful collaboration which could only have happened at The University of Nottingham, with its investment and commitment to interdisciplinary research.

**Professor Christina Lee, School of English, The University of Nottingham**





# 2 Nobel Prizes

Sir Clive Granger won the Nobel Prize for Economic Science; staff member and Emeritus Professor, Sir Peter Mansfield, for pioneering work in developing Magnetic Resonance Imaging (MRI)



## Nottingham in numbers

We produce world-class research



### 6th

largest university in the UK in terms of research staff, according to the 2014 Research Excellence Framework.

### £200m+

in Government and private sector funding to develop the Energy Research Accelerator in partnership with the Midlands Innovation university collaboration, the British Geological Survey and leading industries in the region.

### two Nobel Prize

winners: staff member Sir Clive Granger won the Nobel Prize for Economic Science; staff member and Emeritus Professor, Sir Peter Mansfield, for pioneering work in developing Magnetic Resonance Imaging (MRI).

### £20m

value of the GlaxoSmithKline Carbon Neutral Laboratory for Sustainable Chemistry that will transform future research and teaching in chemistry.

### £500m

value of our current (14/15) research portfolio.

### 8th

in the UK for research power, according to the 2014 Research Excellence Framework.

### £105.2m

received in research funding in 2013/14 – making Nottingham one of the UK's leading destinations for research investment.

### £2.7m

of Government funding to The Additive Manufacturing and 3D Printing Research Group at Nottingham to pioneer work into 3D printing drugs and medicines.

## “

Sir Peter's achievements are outstanding. The worldwide effects of his work will last forever. Everyone knows and understands the importance of MRI.

Pride of Britain Judge

We support a thriving innovation and enterprise ecosystem in Nottingham and the East Midlands



### 1,800

business members of the University's Ingenuity Network for local enterprises.

### 1 of only 4

University Enterprise Zones funded by Government.

### 7th

in England for the number of spin-out companies emerging from a university.

### 3%

of the total research funding provided to universities by the corporate sector in the UK.

### 2nd in the UK

for Collaborative Research Development and live Knowledge Transfer Partnerships, according to Government body Innovate UK.

### 60

businesses in residence at The University of Nottingham Innovation Park, employing 600 people.

### 27

successful spin-out companies currently in operation, employing 145 people and earning £6.6m in turnover in 2013/14.

### 60

new patent applications filed by the University in 2013/14.

# We support a thriving innovation and enterprise ecosystem in Nottingham and the East Midlands

Architect's impression of the Technology Entrepreneurship Centre

The £5.2m Technology Entrepreneurship Centre will be an incubation facility for up to 50 technology-driven start-up businesses and early-stage SMEs, from the local business community or from within the University. The Centre's technology/sector focus will be Big Data and Digital (including Satellite applications), Advanced Manufacturing and Aerospace, and Energy, exploiting the proximity of existing UK-leading technology centres of excellence and the ready supply of highly-trained postgraduates.



## Nottingham in numbers

### £5.7m

in grants available to Nottinghamshire companies: the 'N2 Business Growth Programme' will offer grants of £20k–250k to businesses. The funding has been awarded from the UK government's Regional Growth Fund to help local companies fulfill their potential. Get involved: businesses can register their interest by visiting <http://ingenuitygateway.com/n2bgp> or emailing [N2@embltd.co.uk](mailto:N2@embltd.co.uk)

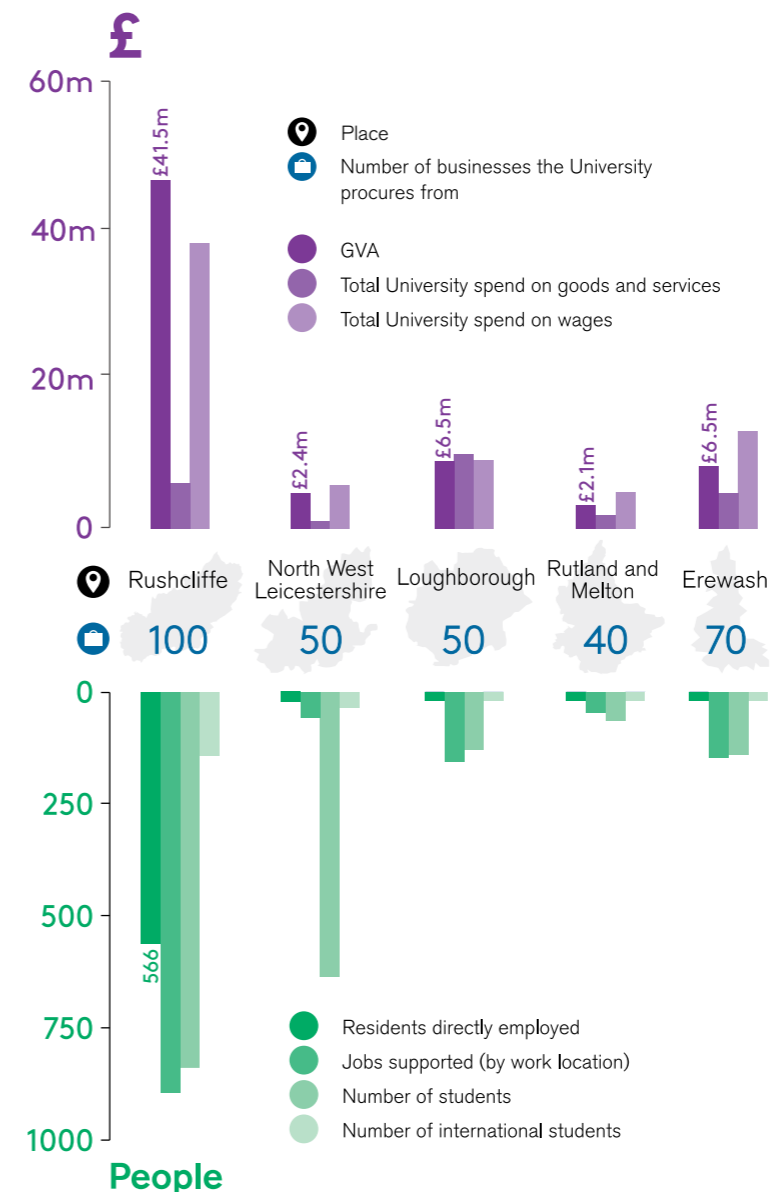
# Focus on: Sutton Bonington – growing the UK's future

The 100-acre Sutton Bonington Campus is located 10 miles south of University Park and Jubilee Campus in the beautiful countryside of South Nottinghamshire. It is home to the School of Bioscience and the School of Veterinary Medicine and Science and possesses state-of-the-art teaching and research facilities. There are currently 1,569 students studying at the campus, supported by 566 researchers and staff, many of whom live in the local area.

Research Technician Dr Brian Atkinson is working alongside Newbold, a laser-guided robot, Hounsfield Facility

## Sutton Bonington and its economic impact

### Sutton Bonington and its economic impact



### Nottingham in numbers

**1569**

students study at Sutton Bonington

**566**

researchers and staff work there

**£3m**

investment in a global brewing research facility opened at Sutton Bonington in 2011 by SABMiller that could change the way beer is brewed across the world

**203**

Holstein cows on campus

**35**

local producers at our award-winning, student-run farmers' market

**40,000**

trees in our Diamond Wood arboretum

**446**

hectares of land in the Sutton Bonington commercial farm

**700**

veterinary professionals attending CPD training sessions since 2012

**800,000**

seed stocks available to researchers as part of the unique collection held by the The Nottingham Arabidopsis Stock Centre (NASC), based at Sutton Bonington

# The Vet School and University Farm

The University of Nottingham School of Veterinary Medicine and Science opened in 2006, the first to open in the UK in over 50 years. Its extraordinarily swift rise to national prominence is demonstrated by its ranking as the best Veterinary School for overall student satisfaction in the county and its recognition as the best school for veterinary medicine in 2014 by *The Sunday Times/Times Good University Guide* and the *Complete University Guide*.

University Farm is a commercial research farm and part of our top-ranked<sup>4</sup> School of Biosciences. As well as providing significant opportunities for research and teaching in biosciences and veterinary science, the Farm is home to a dairy centre of 203 Holsteins, yielding 2.4m litres of milk per year, and an arable centre producing winter wheat, oilseed rape and other crops.

<sup>4</sup> The Guardian

## Case Study



### It's just not cricket... The Michelin-starred chefs changing the future of food

Jonny Bingham and David Jones are two chefs who have a wealth of culinary experience. Both come from Michelin backgrounds, both have run, owned and worked at critically acclaimed establishments and both have successfully transferred these skills into the Product Development sphere. They are based at the University's Sutton Bonington campus labs and regularly work with our students and researchers on a range of innovations in food, from pasta made from crickets to ready meals that last weeks longer than those currently on the shelves. Their recipe dish knowledge is exceptional and second to none.



Innovation is the key driver to everything that we do. Yet in a world where tradition is valued more highly than change, it is fundamental to make sure that the innovation that we present can be at a level that the consumer can understand. Our business is underpinned by its location and is greatly enhanced by our association with The University of Nottingham.

**Bingham and Jones, SME based on  
The University of Nottingham's Sutton  
Bonington Campus**

Undergraduate student working  
with cows, Sutton Bonington campus

## Case Study



### "From farm to fork" – training the UK's food experts

Based at Sutton Bonington, the Agrifood Advanced Training Partnership (AATP) delivers high-level, specialist training to UK Agrifood supply-chain professionals. With research council funding, more than 600 employees across the agriculture and food sector, from over 260 companies, have benefited from an estimated employment cost saving to their businesses of £2,700 per trainee per year.

# We are open to our city and support our community

The University of Nottingham is an institution at the heart of Nottingham and the communities around our campuses – the places our staff and students live, work and study. We are invested in improving the economic, social and cultural life of everyone who shares our city and communities, continuing to open up our campuses to the people of Nottingham and support our local community.

## Case Study



### Students provide lifesaving support in Nottingham and Derby

Medical and healthcare science students have teamed up with the East Midlands Ambulance Service (EMAS) to provide emergency care for patients suffering life threatening medical events, regularly involving patients suffering a cardiac arrest or heart attack. The University of Nottingham Community First Responders (UNCFR) provide direct support to EMAS within the city boundaries of Nottingham and Derby, offering primary assistance for 999 medical emergency calls while an ambulance is on route to the scene.

Scheme co-founder Medicine student Daryl Newland said: "We offer an opportunity to those students studying a healthcare degree, it provides valuable exposure to critical pre-hospital care, we have responded to over 197 cases."

Mick Barnett-Connolly, EMAS Head of Community Response, said: "This is one of the first city schemes EMAS has ever launched so it's a fantastic and exciting initiative, full training by EMAS, learning how to assess an emergency situation and provide early defibrillation and resuscitation."

## Our students are citizens of Nottingham

All of our students sign up to the following statement when they register with the University: "I also acknowledge that I have responsibilities to the communities in which I am temporarily a resident and undertake to act with consideration and respect for the welfare and interests of members of the wider community and my fellow students."

Each year over 2,500 students sign up to volunteer in the local community. The Student Volunteer Centre, part of the Students' Union, matches the needs of over 100 projects from charities and community groups all over Nottingham with the interests and passions of these students. Opportunities range from coaching in local schools to helping organise Christmas parties for the elderly.



I have always been impressed by the range of activities on offer by The University of Nottingham, which schools like Bluecoat Academy can take advantage of. We have taken students of all ages to a variety of excellent, engaging activities – including evening lectures, the Salters Festival of Chemistry competitions, masterclasses and lab visits. All this exposure to the inspirational side of science has contributed, in my opinion and experience, to a large rise in students taking level 3 science after the age of 16 – and has also helped boost the number of girls taking AS-level physics.

**Mr Tom Garner, Assistant-Principal, Bluecoat Academy**



## Nottingham in numbers

**6,450**

hours of time volunteered by University staff and students in projects coordinated by Community Partnership Team

**2,300**

students engaged in volunteering activities in 2013/14 coordinated by the Students' Union

**130**

staff members provide masterclasses, academic sessions for summer schools and other outreach activities

**1,400+**

students are members of societies with a volunteering base, such as the Oxfam society coordinated by the Students' Union

**900**

students took part in volunteering placements at external local and national charities coordinated by the Students' Union

# We are committed to improving access to higher education

## Nottingham in numbers

**We are committed to improving access to higher education**

Over the last decade, The University of Nottingham has made excellent progress in working to recruit more students from less well-off backgrounds. Indeed, a recent report found that 26.54% of UK students entering the University in September 2014 were from low-income backgrounds. This represents a doubling of this intake in the last decade, and an overall rise of nearly 10 percentage points in 10 years, making the University one of the most improved in the Russell Group.

The University of Nottingham is committed to continuing this trend, increasing the proportion of low-income students at the University to 28.25% of the 2019 intake.

Over 130 members of staff are involved in masterclasses, academic sessions for summer schools and other activities aimed at widening participation. Over 600 students are involved in widening participation, either through formal opportunities such as the Inspire Mentors Scheme, or by supporting the Widening Participation Team's activities as Student Ambassadors, volunteers in the IntoUniversity centres or leaders for enrichment activities for primary-school pupils.

**72,000**  
places on widening participation outreach activities in 2013/14

**27%**  
of UK students entering The University of Nottingham in September 2014 were from low-income backgrounds (up from 17% in 2004)

**9–10%**  
of the University's intake are students from the 110 schools that participate in our widening participation programme

**80**  
primary schools and 10 FE colleges, mostly located in the East Midlands are engaged through our widening participation programme

“ Basically the University has allowed me to realise something that I thought had passed me by. I would like to take this opportunity to highlight the Foundation Year for Physics. This, I believe, is what makes The University of Nottingham truly inclusive. It opens the door to degree-level qualifications for those of us who ‘slipped through the net’ years ago or those who received bad advice from their school teachers regarding their choice of A-level subjects. The tutors genuinely want to give people a second chance.

Steven Fox, 42, 1st Year UG Physics

# Our Academies



## Case Study

### Nottingham University Samworth Academy

Nottingham University Samworth Academy is an 11–18 school serving the Nottingham inner-city community of Bilborough. The school is housed in a state-of-the-art, purpose-built facility and was founded by The University of Nottingham and Sir David Samworth CBE in 2010. The University has sponsored the Nottingham University Samworth Academy to help support and improve the life chances of the young people of Bilborough. By working closely with the school, we can contribute to the development of a broad, balanced and innovative curriculum and provide unique opportunities for students to work with the University.

The University believes that by helping to raise levels of aspiration and achievement we can transform the educational opportunities for the young people that our Academies serve.

## Case Study

### NUAST

NUAST opened in September 2014 and is Nottingham's only specialist Science, Engineering and Computing Academy. Our Academy offers students aged between 14 and 19 the chance to study the specialist subjects they are passionate about in a purpose-built, fully equipped, state-of-the-art facility.

Sponsored by the University and the Djanogly Learning Trust, NUAST has been developed to bring secondary education, business and academia together in a way that gives its students the very best education and preparation for working life.

With unique links to University departments and local and national business partners, NUAST students have access to a range of enrichment and curriculum opportunities that will prepare them for further study at university or application for modern apprenticeships.

Students from our academies

# A campus open to all

The University works closely with civic organisations to make Nottingham a greener place. The University has its own fleet of nine electric vehicles, as well as free charging stations to support staff and visitors who own personal electric vehicles. Meanwhile, Nottingham City Council has recently won over £30,000 of funding to undertake a feasibility study for electric taxi fleets to sit alongside their current fleet of 15 electric buses.

The University's green campuses are open to the public and provide access to established woodland, gardens and recreational space for the local community to enjoy. The Friends of University Park group, established by the University in 2004, organises a programme of events and activities to encourage the local community to visit and enjoy University Park.

We also support a large number of local schools, clubs and agencies by providing access to the University's sporting and educational facilities.



## Nottingham in numbers

**1st**

university to be awarded a prestigious Green Flag, with University Park and Jubilee campuses now both winning Green Flags for three years running

**most**

sustainable university in the world according to the Green League Tables

**8,000**

trees on our University Park campus – soon to become a national arboretum

**£3m**

to be invested in projects to reduce carbon emissions

# A hub of culture, arts and sports for the community

Members of the community enjoying the Boating Lake and Lakeside Arts Centre

The University of Nottingham is a vibrant hub of cultural, arts and sports for our local community and beyond. Off campus, we provide funding and support to the Nottingham Contemporary, demonstrating our commitment to the arts and cultural institutions of the city.

Our stunning performance, gallery, museum and public space – Lakeside Arts has a broad programme of visual, performing and participatory art and family events open to all. Over 48,700 visitors came to chargeable art performances and a further 7,800 attended free art performances in 2013/14.

Exhibitions at the University's museums and galleries—many of which are housed in the Lakeside Arts Centre and Museum—attracted 80,300 visitors in 2013/14. Lakeside Arts also offers opportunities to acquire new skills or just have fun in a creative setting as part of their "Take Part & Learn" initiative.

Our reputation as one of the UK's most successful sporting institutions provides numerous benefits to our local communities. We support a large number of local school, clubs and agencies through providing access to our facilities including Bluecoat, Hollygirt, NUASt, Nottingham Girls High Schools, Notts Schools Football Association, Notts County Football Junior Programme, David Ross Educational Trust, Nottingham Outlaws rugby league, Nottingham Rockets Volleyball, Premium FC, Nova Swimming Club, TFN Triathlon Club and many more.

Our sports facilities are also open to the public and we have over 1,000 public members across our sites.



## Nottingham in numbers

**173,200**

people attended social and cultural events at the University in 2013/14

**56,500**

visitors attended art performances at Lakeside Arts in 2013/14

**80,300**

visitors to the University's galleries and museums

**8th**

best attended University Arts Centre in the UK

**4th**

most successful sporting university over the last 30 years

**32nd**

place, would have been where the University would have placed in the 2012 Olympics, if we were a country, the most successful performance of any English university



The University of  
**Nottingham**

UNITED KINGDOM • CHINA • MALAYSIA

---

To discuss this report, or request  
a hard copy – please contact

**[economicimpact@nottingham.ac.uk](mailto:economicimpact@nottingham.ac.uk)**

or Deputy Director, External Relations  
(Public Affairs) at **[alex.miles@nottingham.ac.uk](mailto:alex.miles@nottingham.ac.uk)**

This publication is available  
in alternative formats.

**T: +44 (0) 115 951 5559**

The University of Nottingham has made every effort to ensure that the information in this brochure was accurate when published. Please note, however, that the nature of the content means that it is subject to change from time to time, and you should therefore consider the information to be guiding rather than definitive.

© The University of Nottingham 2015.  
All rights reserved.

Printed October 2015

The University of Nottingham  
University Park  
Nottingham  
NG7 2RD  
UK

T: +44 (0) 115 951 5151  
F: +44 (0) 115 951 3666

[www.nottingham.ac.uk](http://www.nottingham.ac.uk)