

THE  
*Surrey*



*Ambition*



UNIVERSITY OF  
SURREY

The University of Surrey is a

# *global community*

of ideas and people, dedicated to

**LIFE-CHANGING EDUCATION  
AND RESEARCH**



With a beautiful and vibrant campus, we provide

**EXCEPTIONAL  
TEACHING**

and practical learning to

# ***inspire and empower***

our students for personal  
and professional success.



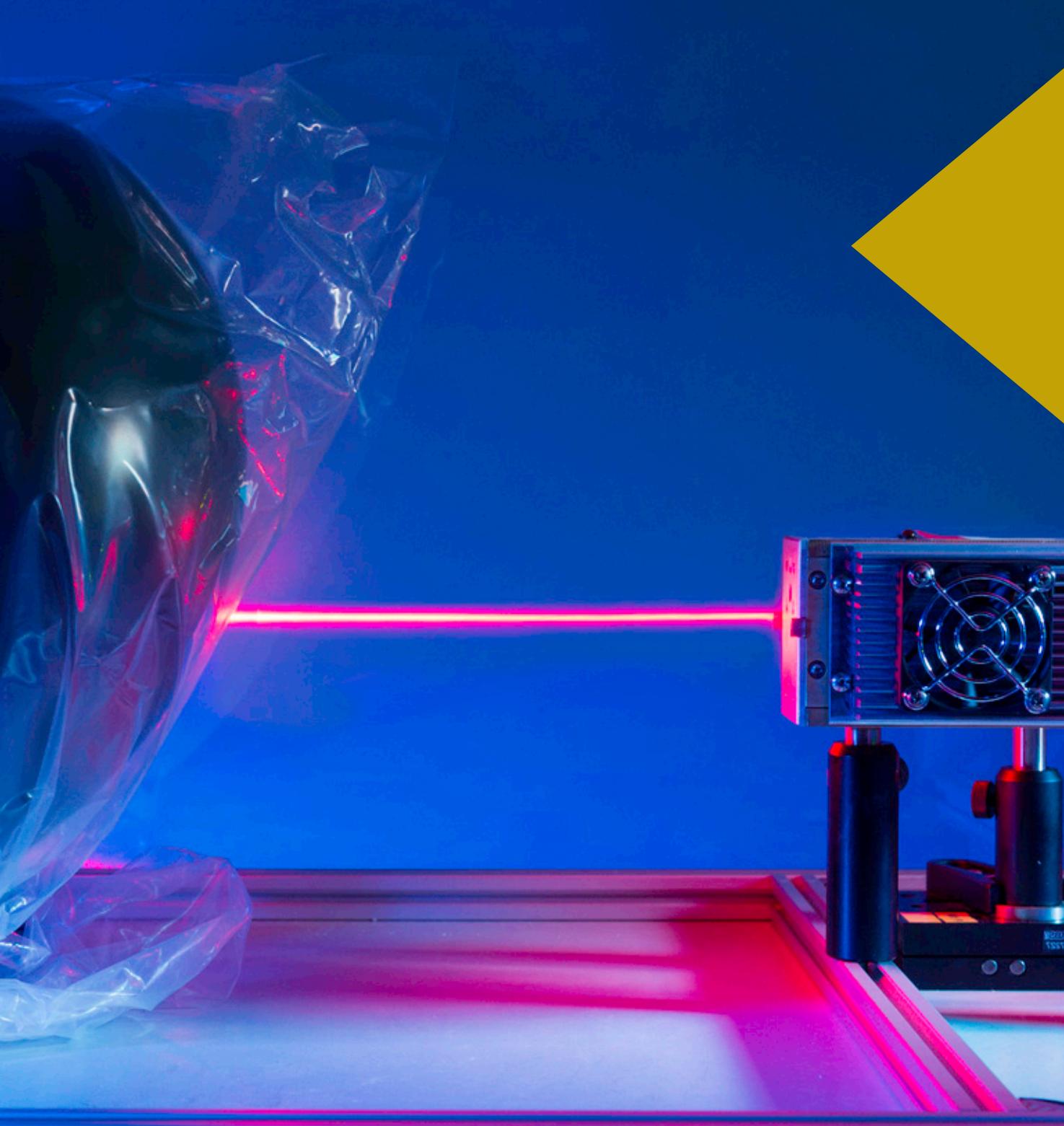
Through our

# ***world-class research and innovation,***

we deliver

**TRANSFORMATIONAL  
IMPACT**

on society and shape future digital economy  
through agile collaboration and partnership with  
businesses, governments and communities.





# Ambition, MOMENTUM and energy



## WELCOME

**PROFESSOR G Q MAX LU AO DL FAA FTSE**  
PRESIDENT AND VICE-CHANCELLOR

AS WE MOVE FORWARDS INTO SURREY'S SECOND HALF CENTURY, OUR PEOPLE CONTINUE TO GROW OUR COMMUNITY, MAKING NEW DISCOVERIES AND UNFORESEEN CONNECTIONS.

The University of Surrey has always been a pioneer. Since the University's founding in the 1960s, and before that at Battersea College, our community has thrived through strong connections and collaboration with the outside world. We've formed close partnerships with other institutions and businesses, reaching across geographic boundaries, and used those relationships to bring potential to life.

Above all, our strength is in our people. Surrey's academics make extraordinary discoveries which address some of the world's biggest challenges, while setting our students on their own paths of discovery and success.

Our intrepid spirit is no more embodied than by our nutritional science colleagues,

who have just been awarded the Queen's Anniversary Prize. Through decades of ground-breaking research, these academics have uncovered new links between diet and preventable disease, and brought about major changes in government policy. We're all incredibly proud of their achievements.

There's a real energy, momentum and ambition to Surrey. It's always been part of us, and I'm excited to now be able to share with you how we're taking that energy forwards into the future. I hope you enjoy reading about our future plans - the 'Surrey Ambition' - in this brochure, as well as looking back at our fantastic achievements from 2017. Last year we marked 50 years in Guildford, and now we look forward to the exciting new worlds we are only beginning to explore.

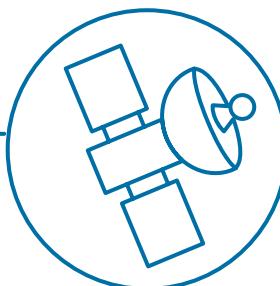




# ONLY AT Surrey

## OUR PASSION KICK-STARTED A GLOBAL INDUSTRY

As a PhD student in the 70s, Professor Sir Martin Sweeting built a command station for amateur radio enthusiasts – the beginning of the Surrey Space Centre and spin-out company Surrey Satellite Technology Limited.



## THERE'S A PIECE OF US IN EVERY DVD PLAYER AND SUPERMARKET

In 1985 Professor Alf Adams helped make the digital age possible by inventing the strained-layer quantum-well laser, now used in billions of optical electronic devices including CDs, DVDs and supermarket checkouts.



HERE ARE  
SOME OF OUR  
ACHIEVEMENTS





SINCE OUR FOUNDATION, WE'VE BEEN DEFINED BY  
THE ENERGY AND DETERMINATION OF OUR PEOPLE.



WE'VE WON A QUEEN'S  
ANNIVERSARY PRIZE FOUR TIMES

One of the most prestigious honours a university can achieve, we've been awarded one four times: in 1996, 2002, 2011 and 2017.



WE'VE WON FOUR OSCARS, SEVEN  
GRAMMYS AND 12 BAFTAS

Graduates of our world-renowned Tonmeister® degree course have taken the entertainment world by storm.



FROM A BRITISH ICON TO  
DRIVERLESS CARS

In 1958, alumnus Sir Alec Issigonis designed Britain's most iconic car in response to the Suez oil crisis. Today, we're trialling cutting-edge driverless vehicles.

THAT EMBODY  
THE SURREY  
AMBITION.

# Giving back FOR NEW *generations*



BATTERSEA GRADUATE DR ERNEST LITTAUER AND HIS WIFE DEVEDA HAVE PLEDGED A GENEROUS LEGACY TO HELP PROPEL FUTURE GENERATIONS OF SURREY MECHANICAL ENGINEERS TO SUCCESS.



ERNEST LITTAUER

*"It's exciting to know that your contribution is helping people. Targeted giving lets you see where your gift can make a difference, and Surrey does a very good job of finding something that is of interest to each donor, developing it and making it feel special."*

A long-term supporter of the University of Surrey, Ernest studied BSc Metallurgy and PhD Electro-Metallurgy at Battersea College of Technology (Surrey's predecessor) in the 1950s and 60s.

Ernest's time at Battersea was the catalyst for his highly successful career – and a lifetime of giving back.

He gratefully remembers the institution's unique ethos, which gave students the freedom to research what they wanted and instilled in them the confidence to succeed. These qualities enabled Ernest to take his first step on the ladder of US company Lockheed Martin, where he rose to the prestigious position of Vice-President and General Manager of Missiles and Space Research.

Ernest said: "I had a fantastic education which put me in a position to move upwards at Lockheed. I've always been proud that Battersea College of Technology developed into the world-class institution that is the University of Surrey.

"Surrey thrives on new initiatives, educates a diverse population and ensures students' success, which results in high rankings. These are all things that Deveda and I value too."

Rewarding achievement is particularly important to Ernest and Deveda, and they provide three prizes in the Department of Mechanical Engineering to recognise students' exceptional work. Alongside their financial support, Ernest is also a founding member of the Friends of the University of Surrey, established in the US to support teaching, research and student achievement, and to enable donations.

Ernest and Deveda continue to be a part of Surrey's momentum and growth, and their pledge will strengthen our academic provision and create incredible opportunities for future generations of mechanical engineers at Surrey.



## INVESTOR BEN LEVINE HAS MADE A RECENT GENEROUS DONATION TO SUPPORT OUR WORLD-LEADING RESEARCH THAT'S HELPING TO IMPROVE EMERGING ECONOMIES.

As CEO and co-founder of hedge fund LMR Partners in London and Hong Kong, Ben is passionate about policy-relevant macroeconomics. His recent donation of £200,000 to Surrey's School of Economics will fund an innovative research project that will inform monetary, fiscal and banking regulation policies, as well as improve our future understanding of new economic models in central banks, ministries and universities.

Our School of Economics has worldwide influence, with many academics acting as economic advisers to governments and leading financial institutions. Our Centre for International Macroeconomics has had significant impact on monetary policy in emerging economies in Asia and Africa.

Ben discovered Surrey's world-leading research in this field first-hand from his father, Professor Paul Levine, an expert in macroeconomics who's worked for the University for 23 years.

Ben said: "I grew up familiar with the quality of the teaching and research at the University and within the School of Economics. My career owes a lot to academic economics and I am very aware of the importance of economics as a science and the potential for guiding policy. I'm also keen to help provide opportunities for young researchers, particularly those from disadvantaged backgrounds."

Donations such as Ben's have been vital in helping develop economic knowledge and expertise. Ben believes Surrey's research will be particularly relevant for emerging economies as they continue to converge with advanced economies and build on recent decades of progress.



**BEN LEVINE**  
CEO AND CO-FOUNDER,  
LMR PARTNERS

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*"I want to fund quality research which will make a difference to fiscal policies around the world, and I chose Surrey because of its reputation in this field. I urge others to consider donating to the University to support researchers who have the expertise to tackle global challenges, help solve practical problems and mentor future generations."*

# Forming CHEMICAL AND INDUSTRIAL *bonds*



CHEMICAL ENGINEERING GRADUATE NICK AMOTT'S PAST AT SURREY HAS CONTRIBUTED TO A MAJOR RECENT DONATION FROM THE GLOBAL ENGINEERING AND CONSTRUCTION COMPANY FLUOR.

Our chemical engineering courses have over 100 years of history behind them, and today continue to produce highly trained graduates that are in great demand in industry. The courses' excellent reputation is supported by our exceptional teaching facilities, which have now benefitted from Fluor's support for over a decade.

A recent \$300,000 gift from the Fluor Foundation will continue the transformation of our undergraduate labs, creating a new flexible work space with equipment and experiments that replicate real industrial facilities.

Nick Amott, who graduated from Surrey in 1978, has worked at Fluor for over 35 years and is a visiting professor at the University. Nick has long been an advocate for our Department of Chemical and Process Engineering, and continues to energetically work today to build Surrey's partnership with the company into the future.

Nick said: "When Fluor decided to increase its philanthropic support in the UK, I suggested Surrey because of its reputation for well-rounded and experienced graduates."

Fluor has also supported our internationally-renowned 'Hess Rig', now reconfigured and completely upgraded as the 'Fluor Pilot Plant', which gives students experience of running a real chemical production process. The facility is so highly regarded that each summer the Nobel prize-winning Organisation for the Prohibition of Chemical Weapons sends delegates to Surrey from around the world to train as chemical weapons inspectors.



**NICK AMOTT**  
FLUOR

*"Many Surrey graduates work for us and we have been running a very successful Professional Training year placement with Surrey for years. The University gets an understanding of the graduates needed in industry and the skills required, and we get access to talented students and engage with a wider network of people."*

*"I am very passionate about Surrey and believe that together we are developing the next generation of engineers."*





NEVER

# standing still

DO YOU BELIEVE IN THE POWER OF  
EDUCATION TO TRANSFORM LIVES?  
THROUGH OUR CHANCELLOR'S APPEAL,  
YOU CAN HELP US BRING POTENTIAL TO LIFE.

Over the past 50 years, the University of Surrey has been the home of inspirational teaching, research and innovation that has changed the world for the better.

With your help, we can expand our research to create a brighter future, making the world smarter, safer and more connected.

We can continue to educate the brightest and most promising students, irrespective of their background and origin.

Support from our alumni, friends and partners has played a critical role in our success in becoming one of the top universities in the UK. Our Chancellor's Appeal, launched in 2017, enables you to play a role in shaping our future.

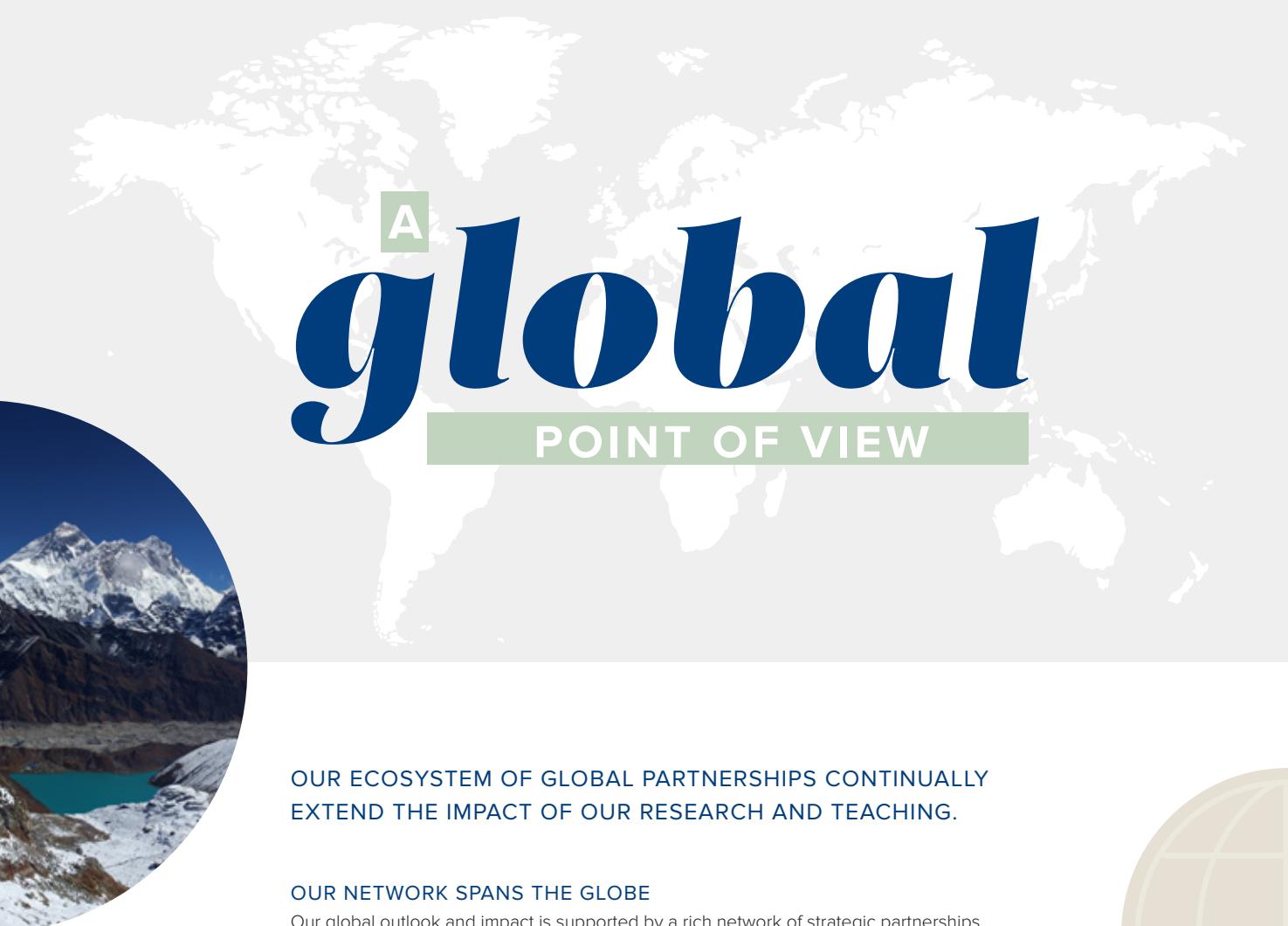
#### HELP US TRANSFORM STUDENTS' LIVES

Scholarships enable us to reward academic excellence, support research and allow students from all backgrounds to succeed. With your help we can increase the number of scholarships available to our high-calibre students and help them achieve their full potential, now and into the future.

#### TOGETHER WE CAN OVERCOME GLOBAL CHALLENGES

With your support we can continue our pioneering work, which tackles some of the most pressing issues of our time: providing safe drinking water for billions of people around the world; developing technology to improve care for people with dementia; and discovering new treatments for human and animal cancer.





# A global

## POINT OF VIEW

OUR ECOSYSTEM OF GLOBAL PARTNERSHIPS CONTINUALLY EXTEND THE IMPACT OF OUR RESEARCH AND TEACHING.

### OUR NETWORK SPANS THE GLOBE

Our global outlook and impact is supported by a rich network of strategic partnerships with like-minded institutions around the world. For example, the University Global Partnership Network (UGPN) is a collaboration with the Universities of Sao Paulo, North Carolina State and Wollongong, which supports sustainable world-class research, education and knowledge transfer for the benefit of global society. The UGPN has propelled forward 45 research projects in areas such as antimicrobial resistance, air pollution and climate change.

### SURREY INTERNATIONAL INSTITUTE AT DONGBEI UNIVERSITY OF FINANCE AND ECONOMICS, CHINA (SII-DUFE)

In 2017 senior staff and students from Surrey and China came together to celebrate the 10th anniversary of our joint venture, SII-DUFE, one of the largest British higher education programmes in China. The Institute is now set to reach greater heights with the launch of a new accounting and finance course and an expansion of our joint research activities.

### A WORLD OF OPPORTUNITY

An ever increasing number of Surrey students are discovering the life-changing benefits of studying or working abroad as part of their course. Over 470 students spent time abroad in 2017, in countries from Argentina to Japan, as well as almost all EU countries. In 2018, Surrey celebrates 10 years of partnership with the Santander Universities network, which funds student and staff mobility between universities from over 20 countries worldwide.



# Laying roots, GROWING AND *giving back*

AT THE UNIVERSITY OF SURREY OUR COMMUNITY SPIRIT EXTENDS FAR BEYOND OUR CAMPUS.

Since we planted our roots in Guildford in 1966, the University has been an enthusiastic and active member of the local community, and we are passionate about giving back to our home.

In 2017, we have continued to offer the people of Guildford sports, arts and business facilities, public programmes and resources, as well as learning and development opportunities through scholarship and community outreach. Our staff and students also continued to build meaningful relationships through voluntary work and charitable giving.

In the same way that we enjoy all the entertainment and culture that Guildford has to offer, we invite the public to enjoy all that we have to offer. From stargazing evenings to sporting tournaments, our calendar of events are as diverse as they are enjoyable.

We know that investing in young people is an investment in the future of society. We're passionate about education. Our Widening Participation and Outreach Department delivers a programme of activities to local state school students from backgrounds that are underrepresented at universities because we believe in giving opportunities to all regardless of background.

Communication is crucial to maintaining a good relationship with our neighbours. The Students' Union's Community Zone and the University's Public Engagement team connect with the local community, and Surrey's twice yearly newspaper *Your University* keeps local residents informed.

We laid our roots in Guildford more than half a century ago, and in that time both the town and the University have continued to grow side-by-side. We support one another and share in celebrations, challenges and victories, and will continue to do so for years to come.



# BUILDING A *5G future*

THIS YEAR, OUR 5G INNOVATION CENTRE BEGAN TO UNVEIL THE NEXT GENERATION OF MOBILE COMMUNICATION TECHNOLOGIES THAT WILL TRANSFORM THE WAY WE LIVE. AS WE TOOK THE LEAD IN A NEW £16M TESTBED HUB PARTNERSHIP, DEMONSTRATED EUROPE'S FIRST AUTONOMOUS CAR, AND LAUNCHED THE WORLD'S FIRST 5G DIGITAL GAMING INITIATIVE, THE '5G CITY OF THE FUTURE' MOVED EVER CLOSER TO REALITY.

# THE 5G CITY OF THE FUTURE

## A DIRECT LINE TO THE UNIVERSE

Mobile devices able to control satellites by sending signals into space.



## A RETAIL REVOLUTION

Delivery drones able to deliver orders, from retail to takeaways, direct to your home.



## EXPLORING NEW WORLDS

Virtual reality gaming that will allow you to immerse yourself in another world, with video-realistic content production and ultra-fast connectivity.



## SMARTER LIVING

Smart homes intelligent enough to distinguish between people and adjust the lighting, temperature and music based on personalised preferences.



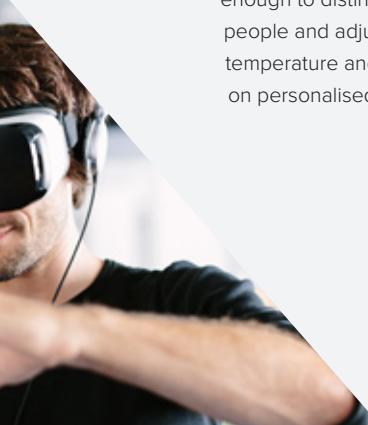
## LIFE-SAVING TECH

Wearable technology with the ability to save lives by reading vitals and sending information to your doctor or to the emergency services.



## YOUR COMMUTE REIMAGINED

Driverless cars with the ability to navigate traffic with real-time updates.



# OPENING UP AND *coming together*

WE CELEBRATED 50 YEARS IN GUILDFORD WITH OUR 'FESTIVAL OF WONDER' IN MAY 2017, INVITING GRADUATES AND LOCAL RESIDENTS ONTO CAMPUS TO WITNESS THE FASCINATING WORK WE DO.



Over 6,000 students, graduates and local residents gathered for the Festival, which celebrated 50 years since the University was established on Stag Hill, Guildford. The Festival hosted student performances, live music, and opportunities to explore science, technology and the arts – from touring the solar system to extracting DNA from strawberries.

The great people that make up Surrey include a number of famous faces, many of which took part in the Festival. BBC Radio 4's science presenter Jim Al-Khalili, a Professor in the Department of Physics, and Channel 4 'Supervet' Noel Fitzpatrick, Visiting Professor in the School of Veterinary Medicine, were both on hand to talk to visitors about their inspiring research at Surrey. We were also delighted to welcome actors Brian Blessed OBE and Dame Penelope Keith OBE, and former Rugby Union player Sir Ian McGeechan OBE.

Our past students were also able to gather and reflect on their experiences with Surrey, and on what the University means to them today. Hundreds of graduates gathered in an 'Alumni Lounge' to share their memories, while a mini museum showcased the University through its five decades. Emily Newman, from the class of 2006, said: "The day was fun. It was rewarding to come back as an alumna and see how the University is continually evolving. That's a really nice feeling."

For younger guests, there were professional coaching sessions at Surrey Sports Park and interactive workshops at the University's School of Veterinary Medicine – perhaps sparking the imaginations of the next generation of Surrey students.





# BEARING A *gold* *standard*

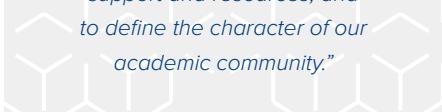


THE FANTASTIC TEACHING WE OFFER HAS BEEN RECOGNISED BY THE AWARD OF A TEACHING EXCELLENCE FRAMEWORK (TEF) GOLD AWARD, WHICH MARKS THE UNIVERSITY OF SURREY AS AN 'OUTSTANDING' INSTITUTION.



**PROFESSOR JANE POWELL**  
VICE-PROVOST, EDUCATION  
AND STUDENTS

*"Surrey students are talented and ambitious: they come from all over the world and from diverse backgrounds. They are very effective in bringing their varied perspectives to shape the design and delivery of our courses, to participate in decisions about support and resources, and to define the character of our academic community."*



We've long been confident of the teaching we offer at the University of Surrey, with a tradition of great teachers and student-first course design, such as our Professional Training placements, going back decades. We were delighted in 2017 when we were awarded a highly prestigious TEF Gold award by the UK Government. They praised the way we stretch and support our students through rigorous course design and assessment, and recognised our innovative, personalised and well-resourced academic provision.

The TEF panel were particularly impressed by the emphasis we give to embedding Professional Training work placements within our courses, and by how our staff energetically apply their outstanding research to help shape our curriculum and develop our students' critical and analytical skills.

Our students were also recognised as excellent, with students from all backgrounds consistently achieving outstanding results and a significant proportion progressing to highly skilled employment or further study. Like the University itself, our students are also constantly learning and applying their knowledge in new situations.

Professor Max Lu, Vice-Chancellor, said: "This is a wonderful recognition of our world-class courses and our longstanding ethos of working with our students to put their learning experience, personal development and future career opportunities at the heart of our approach to education. An education from Surrey gives students the best possible start in life and a passport to a global career."



# A meeting minds

AT THE HEART OF SURREY'S DYNAMIC CULTURE  
IS A TRULY INTERNATIONAL STUDENT BODY  
– DEMONSTRATED AT OUR FIRST CHINESE  
GRADUATION CEREMONY IN BEIJING.

Held as part of the University's golden anniversary celebrations, the ceremony was held at the Beijing Hilton in May 2017 and saw Vice-Chancellor Professor Max Lu and senior academic staff welcoming 300 Surrey graduates along with their families and friends.

The event was a wonderful opportunity to celebrate the achievements of Surrey's graduates who are now going out and making a meaningful impact in the world.

Professor Max Lu said: "We're proud to educate young people who will contribute to society and become the leaders of the future, making a difference to the lives of people around them, and supporting and developing local and global economies."

The ceremony was also a chance to welcome graduates to the University's vibrant international alumni community, which spans 140 countries and connects over 105,000 former students, and to outline our plans for a future Beijing Alumni Club.

During the event, an honorary doctorate was given to eminent scientist Professor Tieniu Tan, a former Vice-President of the prestigious Chinese Academy of Sciences. Dr Tan has collaborated with many of Surrey's academics and serves on the Advisory Board of the Surrey-China Academic Network.

#### PROFESSOR MAX LU PRESIDENT AND VICE-CHANCELLOR

*"This event was a significant milestone, as it's the first time we've celebrated the achievements of our Chinese students in Beijing. Our Chinese students and graduates make contributions to the University that make Surrey unique. I hope all our graduates have left Surrey with fond memories, lasting friendships and a real sense of achievement."*

## FACILITIES THAT NET

# global events



SURREY SPORTS PARK PROUDLY HOSTED THE FIL RATHBONES WOMEN'S LACROSSE WORLD CUP IN JULY 2017 – A CHANCE TO SHOWCASE OUR EXCEPTIONAL FACILITIES.

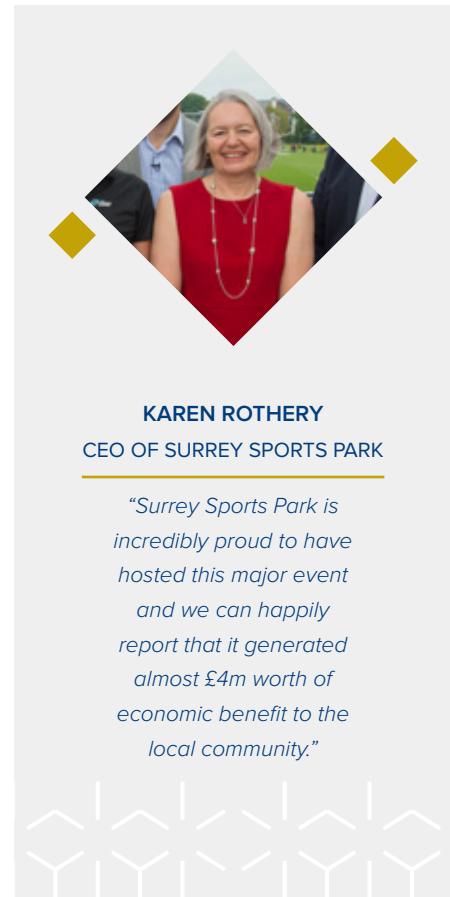
Sport has long had a home at Surrey but in recent years, with the opening of the Surrey Sports Park, we've moved into a higher gear, enabling us to host global sports events and setting us up for great sporting success in the future.

The FIL Rathbones Women's Lacrosse World Cup in 2017 saw us host athletes from 25 different nations to compete for the title of World Lacrosse Champions. England beat two-time champions Australia 10-9 in the third place play-off, securing the bronze medal with a dramatic golden goal – the team's first Lacrosse World Cup medal since 2005.

Not only did we host the games, but our people were closely involved too: James Wild, Lead Strength and Conditioning Coach at Surrey Sports Park and lecturer in BSc Sport and Exercise Science, worked with the England Women's Lacrosse team throughout the tournament on strength and conditioning training.

The Surrey Sports Park is continuing to build on the success of the 2017 Women's Lacrosse Cup event by hosting future Rathbones National Schools Lacrosse Championships, as we welcome school children from across the country to the University with dreams of being the next world champions.

Surrey Sports Park provides a range of opportunities for athletes to train, improve, and compete on a national and international level, and has hosted competitive events such as the 2010 Women's Rugby World Cup, 2013 Danone Nations Cup and the inaugural Paralympics GB SportsFest. The Park is also home to some of the world's top elite sports teams and athletes, and will only grow in significance in the years to come.



KAREN ROTHERY  
CEO OF SURREY SPORTS PARK

*"Surrey Sports Park is incredibly proud to have hosted this major event and we can happily report that it generated almost £4m worth of economic benefit to the local community."*

# NUTRITIONAL value



THE QUEEN'S  
ANNIVERSARY PRIZES  
FOR HIGHER AND FURTHER EDUCATION  
2017



SURREY'S PHENOMENAL BODY OF WORK EXPLORING THE LINKS BETWEEN FOOD, NUTRITION AND HEALTH HAS BEEN RECOGNISED WITH A QUEEN'S ANNIVERSARY PRIZE FOR HIGHER AND FURTHER EDUCATION.

The award was announced at a special ceremony at St James's Palace at the end of November 2017. The Queen's Anniversary Prize is the highest honour that an academic institution can win, and is awarded every two years by HM The Queen to acknowledge world-leading research and teaching.

Surrey's award recognises half a century of pioneering research in cardiovascular disease, obesity, diabetes, osteoporosis, vitamin D, iodine and food labelling. Led by our Department of Nutritional Science, and the Food, Consumer Behaviour and Health (FCBH) research centre, the work has not only brought about major changes in government policy, but has also helped transform consumer perception through media and public engagement activities.

While conducting this vital research, Surrey has also educated over 3,000 future practitioners. We were the first university in the UK to teach dietetics and nutrition together, and today are ranked number

one for food science in the country by *The Times* and *The Sunday Times Good University Guide 2018* and the *Complete University Guide 2018*.

Professor Susan Lanham-New, who has been Head of the Department of Nutritional Sciences since 2010, has played a vital part in establishing Surrey as a centre of excellence in this field. Professor Lanham-New said: "The fact that the judging panel described Surrey's work in nutritional sciences as 'exemplary' gives us a huge tick that our last 50 years of effort have really made a difference. This prestigious award is down to the passion and hard work of dedicated staff over many years, and the vision of inspiring academics such as Professor D Joe Millward, who first put Surrey on the map in this area."

The Department of Nutritional Sciences and the FCBH centre's research continues, and will no doubt discover more in the years to come.



## SURREY'S RESEARCH HAS:

- Dispersed the myth that dietary cholesterol increases blood cholesterol, which has resulted in removing restrictions on egg consumption
- Improved our understanding of the impact of vitamin D on bone health, in particular with research into ethnic populations
- Led to changes in policy for military training and nutrition provision, through our work with the Institute of Naval Medicine in Gosport
- Prompted reformulation of pregnancy supplements by demonstrating the link between iodine deficiency in pregnant women and lower IQ and reading ability in their children.



**PROFESSOR  
SUSAN LANHAM-NEW**

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*"Winning the Queen's Anniversary Prize gives us great credibility in the field of nutritional sciences specifically, but also in science generally. We will continue to push forward to ensure that this opens up further opportunities for collaboration with partners both nationally and internationally."*

# EXTRAORDINARY *every day*

THE 2017 VICE-CHANCELLOR'S AWARDS HONOURED OUR STAFF WHO ARE MAKING TRULY EXCEPTIONAL CONTRIBUTIONS TO OUR COMMUNITY – ACROSS TEACHING, RESEARCH AND PROFESSIONAL SERVICES.



An expert in Latin American literary and cultural studies, Dr Lucy Bell recently won a £250,000 research grant to explore the fascinating concept of 'editoriales cartoneras' – a publishing movement based on recycled cardboard, which is expanding access to literature in Latin America. Since arriving at Surrey in 2013, Dr Bell's pioneering work has been published widely

in leading journals in her field. Dr Bell said: "I was thrilled to be nominated for this award, and even more so to win it. I'd like to thank my colleagues in the School of Literature and Languages and Faculty of the Arts and Social Sciences who nominated me, and the dozens of colleagues, friends and family who have supported my research since I arrived at the University."



DR RACHEL SIMMONDS



MS LUCY EVANS



DR LUCY BELL

## VICE-CHANCELLOR'S AWARD WINNERS 2017

### EARLY-CAREER TEACHER OF THE YEAR

Dr Radu Sporea, Advanced Technology Institute

### TEACHER OF THE YEAR

Mrs Anna McNamara, Guildford School of Acting

### POSTGRADUATE RESEARCHER OF THE YEAR

Dr Taryn Smith, School of Biosciences and Medicine and Dr Daniel Ratliff, Department of Mathematics

### RESEARCHER OF THE YEAR

Dr Lucy Bell, School of Literature and Languages

### AWARD FOR EQUALITY AND DIVERSITY

Dr Rachel Simmonds, School of Biosciences and Medicine

### AWARD FOR LEADERSHIP

Mrs Laura Smythson, Centre for Wellbeing

### COLLEAGUE OF THE YEAR

Ms Lucy Evans, Faculty Manager, Faculty of Arts and Social Sciences



# Working with students, FOR STUDENTS

IN 2017 OUR STUDENTS APPROVED THE NEW STUDENTS' UNION'S STRATEGY, WITH ITS EMPHASIS ON LISTENING TO AND SPEAKING UP FOR STUDENTS. WE ARE NOW FOCUSED ON ENCOURAGING PARTICIPATION, INCREASING STUDENT SATISFACTION AND ENSURING THAT OUR WORK HAS A POSITIVE IMPACT.



## A LOUDER STUDENT VOICE

This year we launched our Liberation Committee, which represents students from typically underrepresented backgrounds. We have also improved our popular Student Voice Forums, by giving all student representatives the opportunity to voice what is affecting them and to be heard by those who can make a difference.

## ENDLESS OPPORTUNITY

Participation is a core aim of the Union, and over 7,500+ of our sports club and society members are involved in activities. More specifically, female involvement in sport saw a boost this year, as over 500 students participated in our This Girl Can events, promoting women's involvement in sport.

## ONE FAMILY, ONE COMMUNITY

Relations with the local community continue to flourish, with a growing number of Community Reps volunteering their time to build relationships in the local area. We're continuing to work with University of Surrey Lettings to help students find safe and suitable accommodation.

## A HELPING HAND

Run by volunteers, our recently launched Nightline service offers students a reassuring ear throughout the night, twice a week. Over 300 students have engaged with our different support campaigns this term, discussing issues such as body image and mental health.

# Trailblazing

## STUDENTS

OUR STUDENTS ARE EVER-CURIOS, TAKING THE THEORY THEY LEARN AND APPLYING IT IN SOMETIMES SURPRISING DIRECTIONS. HERE ARE JUST A FEW RECENT EXAMPLES.



### PASCHALIA MAVROU, ENGD PRACTITIONER DOCTORATE IN SUSTAINABILITY

Based at Unilever for her practitioner doctorate (Surrey's bespoke industrial postdoctorate course), Paschalia has been exploring moisture migration in foods with the aim of reducing food waste – work which has won her third prize in the Institute of Chemical Engineering's Young Researcher Awards.



### JAMIE SANDERSFIELD, BA ACTING

Competing against talented students from across the UK, Jamie won the Association of English Singers and Speakers competition at Royal Central School of Speech and Drama in April 2017. The judges were captivated by his winning performance –a haunting 'Letter to Myra Hindley' by the mother of one of Hindley's victims.



### RALPH NEWBOLD, BSC FOOD SCIENCE AND MICROBIOLOGY

In his final year dissertation, Ralph explored how probiotics could protect people from foodborne bacteria. He presented his project at the Western Regional finals of the Institute of Food Science and Technology Young Scientist Competition – and won first place. Ralph said: "Taking part in this event allowed me to share with others a subject that I am passionate about."

### **ANNA COOK, PHD PSYCHOLOGY**

As the mother of two children on the autistic spectrum, Anna knows the challenges of young people with special educational needs. Leveraging this experience, she is investigating the experiences of children with autism in her PhD, which is funded by Surrey graduate Gavin Whichello and his company Qube Learning.

Anna said: "I hope that my findings will help provide a simple method for schools to improve social cohesion between autistic and non-autistic peers in mainstream schools."



# INTO THE *future*



OUR RESEARCHERS ARE MAKING ASTOUNDING DISCOVERIES WHICH ARE TRANSLATING INTO REAL-WORLD APPLICATIONS WITH FAR-REACHING IMPACT. HERE'S JUST SOME OF OUR EXCITING CURRENT RESEARCH THAT IS SHAPING THE TIMES AHEAD.

## BRINGING CLARITY TO BREXIT

Surrey's Centre for Research on the European Matrix (CRonEM) builds on our long history of cutting-edge research and public engagement on European issues and – with current work focused on the role of gender and the consequences of the UK's decision to leave the EU – has never been more relevant. Bringing together academics from across the social sciences, CRonEM is a crucial platform for debate and has generated substantial media commentary on Brexit.

## DIAGNOSIS OF TYPE 3C DIABETES

Professor Simon de Lusignan recently led a ground-breaking study that suggests that the health of people with diabetes is being put at risk due to misdiagnosis. He discovered that up to 97.3 per cent of patients with type 3c diabetes – which is strongly linked to pancreatic disease – are being misdiagnosed, usually with type 2 diabetes. Since type 3c diabetes requires more urgent insulin therapy, this exposes patients to the risk of devastating long-term effects such as nerve, eye and kidney damage.

## LEADING THE WAY IN SPACE ROBOTICS AND ARTIFICIAL INTELLIGENCE

Surrey's researchers are enabling future space exploration as part of the new £29m Future AI and Robotics and Space (FAIR-SPACE) Hub, which is researching robots that can perform complicated tasks on their own with minimal ground support, such as repairing satellites, building things in space and creating infrastructure on other planets for future human missions.

### YANG GAO, PROFESSOR OF SPACE AUTONOMOUS SYSTEMS

*"This is an incredible opportunity for the University of Surrey and the UK to play a pivotal role in how humankind explores space, our Moon and beyond. We have a very talented team at Surrey and a proud heritage of producing leading research in space science technology. With the support of our partners, FAIR-SPACE will be a new chapter in this illustrious history."*



**PROFESSOR  
SIMON DE LUSIGNAN**

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*"Diabetes and its complications place a tremendous burden on the NHS and it is important that patients are diagnosed quickly and correctly, helping them get the specific care they need."*





**BEN KARKERA**  
MENG MECHANICAL ENGINEERING  
PROFESSIONAL TRAINING STUDENT OF THE YEAR 2017

*"I'd recommend a Professional Training placement to anyone, regardless of what they're studying. By the end of my placement at BAE Systems, I really felt a part of the team and as though I was contributing in a meaningful way."*

# Powerful

## PARTNERSHIPS

SOME OF THE THINGS THAT SURREY AND OUR PARTNERS HAVE IN COMMON ARE AN UNQUENCHABLE THIRST FOR KNOWLEDGE, OUR PASSION FOR INNOVATION AND EXPLORATION, AND THE DESIRE TO MAKE THE WORLD A BETTER PLACE.



The strong partnerships we build at every level enable us to increase our economic impact, answer society's greatest challenges and provide industry-focused teaching.

Our 5G Innovation Centre, which is partnered with major mobile communication players and specialist SMEs, joined with the University of Bristol and King's College in 2017 to form a unique national asset. The new '5G Hub', which is supported by £16m from the UK Government Department for Digital, Media, Culture and Sport, will enable UK-wide technologies in areas such as digital health, transport, cyber security and space.

Our partnership with NPL (the National Physical Laboratory) and the University of Strathclyde is also helping to shape the future, with our joint NPL/Surrey n3m-labs facility enabling the development of the next generation of super-efficient electronic devices.

We're also providing crucial support to start-up companies, allowing them to propel their innovative and imaginative ideas into reality. In 2017 we saw our SETSquared Surrey incubator – a thriving community of high-tech, high-growth companies – going from strength to strength. Following £2.4m funding from the European Regional Development Fund (ERDF), the incubator's membership has more than doubled, with 80 new jobs created and over £2.5m investment raised.

We continue to build new partnerships, including those with the Enterprise M3 Local Enterprise Partnership, with which we're developing relationships in health, space, 5G, digital gaming, blockchain and artificial intelligence research. Whether allowing large-scale commercialisation of new technology, or enabling undergraduates to benefit from life-changing work experience through our acclaimed Professional Training placement programme, our partnerships continue to open up transformational possibilities.



# Ambition

## THAT INSPIRES

OUR AMBITION FOR THE YEARS AHEAD IS NOT ONLY TO GROW, BUT TO THRIVE.

### OUR GOALS ARE TO BECOME:

- A global leader in higher education and a destination of choice for higher learning in the UK and internationally
- A leading research institution which is committed to benefitting the economy, society and the environment
- A preferred partner for government, business, industry and other universities
- A financially astute and sustainable institution with diverse funding support
- An engaged and connected university which is the intellectual home for alumni, supporters, and the local community.

We will grow the size of the University in terms of revenue and student numbers. Growth will enable us to improve our student accommodation offering, and provide our students with superior facilities and services. It will help us attract talented staff and students, and improve our working, learning and research environment.

To maintain the momentum of our growth we will seek opportunities for funding through philanthropic support and government initiatives. There are two major strategic proposals that are currently being considered which will further strengthen the University's position in the areas of medicine and hospitality, as well as provide philanthropic and research funding opportunities to enhance the prestige of the University in the longer term.

### PRIORITIES AND OBJECTIVES

To achieve our strategic goals, the University must be a rewarding place to work and study. We must cultivate a supportive culture that values everyone's contribution.

Our strategic priorities are as follows:

#### STRATEGIC PRIORITY ONE

*To consolidate our excellent teaching and continue to improve the student experience.*

We must respond to students' growing expectations of enhanced academic quality, support services, facilities, accommodation, extra-curricular activities, Professional Training placements, and pathways to employment.

#### STRATEGIC PRIORITY TWO

*To enhance our research and increase its impact.*

We will respond to an increasingly competitive environment by improving the quality of our research, and by attracting and retaining top talent.

#### STRATEGIC PRIORITY THREE

*To build a global reputation and develop a diverse resource base.*

Global connectivity is at the heart of our ambition. We will continue to improve our reputation by creating strategic partnerships with people, organisations and industry around the world. Through the power of collaboration we will achieve our education and research goals.

#### STRATEGIC PRIORITY FOUR

*To respond to rising expectations and competition.*

In order to do this we must be financially sustainable, attract and retain talented staff, enhance our digital and physical infrastructure, and increase our operational efficiency and effectiveness.

To learn more about our corporate strategy, visit:  
[surrey.ac.uk/about/management-and-strategy](http://surrey.ac.uk/about/management-and-strategy)



# OUR *finances*

IN 2016-17 WE ACHIEVED OUR HIGHEST EVER STUDENT POPULATION OF 15,719 AFTER BEING NAMED 'UNIVERSITY OF THE YEAR' BY *THE TIMES AND THE SUNDAY TIMES*.



## INCOME, EXPENDITURE AND SURPLUS

2016-17 was another year of solid growth, with our total income rising by £12.3m (five per cent) to £271.8m. Our tuition fee income increased by £7.6m to £137.3m and our research income by £1.4m to £40.3m.

Our total expenditure increased by £9.9m, to £266.6m.

Taking into account the annual revaluation of Surrey Research Park and other adjustments, our surplus for 2016-17 was £4.2m. This compares to a surplus of £0.9m for the previous year.

## CAPITAL INVESTMENT

We've continued to invest heavily in our estate to improve the experience for our students and to increase our capacity for research. Our capital investment increased from £34.3m in 2015-16 to £49.9m in 2016-17 as we began building the next phase of new student accommodation on our Manor Park campus.

This year we also completed our £12.5m Innovation for Health building, which will help transform healthcare in the UK by providing training that crosses both health and engineering sciences.

## FINANCING

During 2016-17 we drew down the £120m of private placement funds we secured in 2015-16. Of this, we're using £80m to build new student accommodation, with the remainder to be spent on strategic and transformational projects.

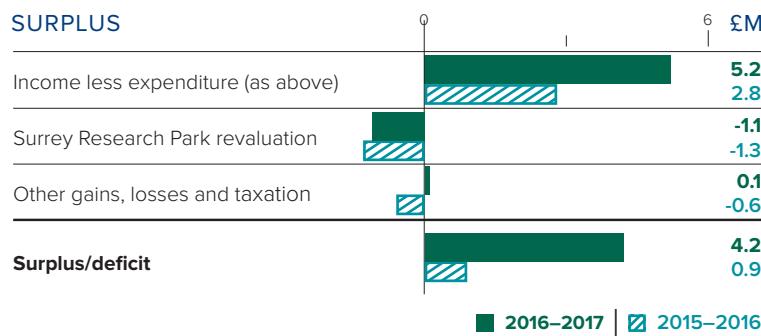
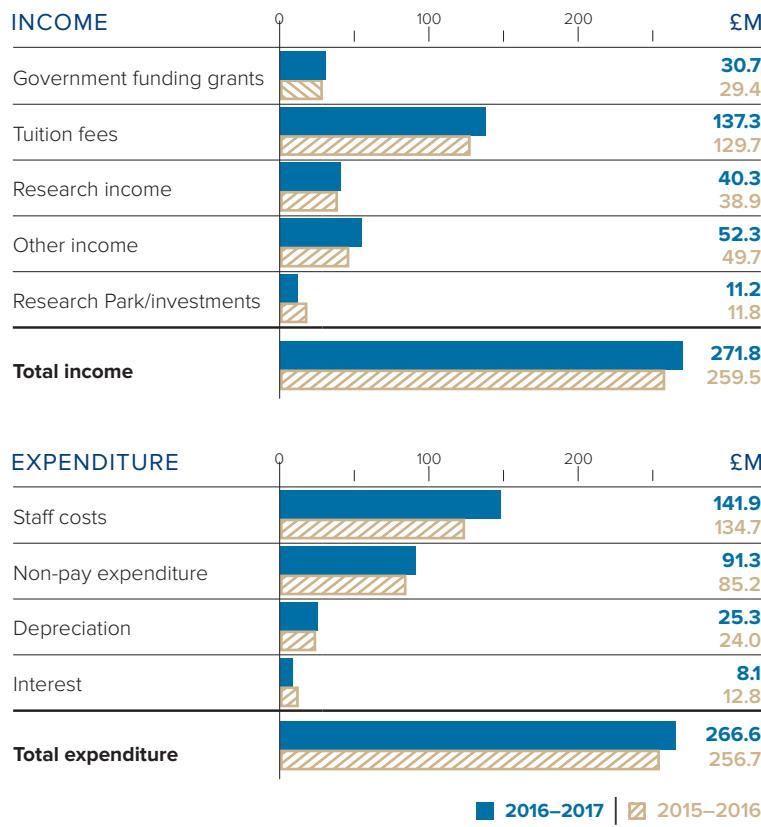
## LOOKING FORWARD

While there are challenges ahead for the University of Surrey and the wider UK higher education sector, we're confident and continuing to invest in our future, building on our strengths to grow income while increasing our operational efficiency and effectiveness.

The University's full financial statements for 2016-17 are available online at:  
[surrey.ac.uk/financialstatements](http://surrey.ac.uk/financialstatements)

## CHARITABLE STATUS

The University is a not-for-profit organisation, with charitable status, working for the public benefit. Our research is addressing the most pressing issues faced by our society. We train and educate young people, change students' lives, and support and develop the local and wider economy. All surpluses are reinvested back into the University to develop our academic activities and to enhance our facilities and services.





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# #SurreyAmbition



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