## Contents

Welcome to Royal Holloway, a community that inspires success
- A history we’re proud of 02-09
- A successful university today 06
- Strong and sustainable in the future 07

We are advancing knowledge to change the world
- Changing lives through scientific discoveries 11-21
- Expanding minds with creativity and knowledge 15-17
- Learning how we manage power and responsibility 18-19

Making a positive impact locally, regionally and nationally
- Our economic impact 22-27
- Our cultural impact 23
- Magna Carta celebrations 24
- Innovative and impactful partnerships 25
- Global research collaborations 26
- Inspiring support to global leaders 26
- Life changing research partnerships 27
- Applying knowledge for commercial success 27

Preparing our students for success beyond campus
- Building soft skills 28-29
- Supporting access to practical experience 29
- Seeking to create a level playing field 29

Be part of our community
- Grow your business 30
- Be part of world leading research 30
- Engage with and inspire some of London’s brightest students 30

Every effort has been made to ensure the accuracy of the information within this publication at the time of printing (February 2016). However, the College reserves the right to introduce changes to the information given.
As Principal of one of the UK’s leading universities I would like to welcome you to Royal Holloway, University of London.

We are a close knit community and our goal is to work together to inspire individuals to succeed academically, personally and professionally. We are privileged to be home to some of the world’s leading authorities in science, the arts, management, economics and law. Our founders were Victorian social pioneers and we are proud to continue their legacy through our shared commitment to the individual and social value that comes from education and knowledge. We also recognise our role in helping our students to prepare for life beyond campus and work hard to support them to compete in a challenging graduate job market.

At the heart of our campus is the iconic Grade I-listed Founder’s Building. I hope, by reading about Royal Holloway, you’ll want to spend more time with us here.

Professor Paul Layzell
Principal
Royal Holloway, University of London
A history we’re proud of

Royal Holloway was founded by two social pioneers; Elizabeth Jesser Reid founded Bedford College in 1849 and Thomas Holloway, inspired by his wife Jane, founded Royal Holloway College and built the stunning building that opened in 1886 and is at the heart of our campus today.

Both Colleges were among the very first institutions in the UK to give women access to higher education. In 1900, the Colleges were admitted to the University of London and merged in 1985 to form what is today known as Royal Holloway, University of London.
A successful university today

By any measure, Royal Holloway is one of the world’s leading universities

129th globally

19th in the UK

Times Higher Education World University Rankings, 2015-16

Research Excellence Framework, 2014

81% of Royal Holloway’s research was rated within the top two categories of world leading or internationally excellent

25% within the top 25% of all universities in the UK for research

National Student Satisfaction Survey, 2015

89% overall satisfaction rating

35th out of 158 institutions

Highest overall satisfaction rating of London institutions
Strong and sustainable in the future

We aim to grow our student population to around 12,000 by 2030. This will ensure that we have the critical mass to continue to provide a first class education, informed by world leading research.

In doing so, we build on the legacy of our founders as a source of inspiration for the next generation of independent thinkers.

To support our growth we have invested in new courses; in 2015 we welcomed the first students to our Law programme and started new courses including BA Liberal Arts and a BA and BSc in Digital Media Communications.

We are preparing to launch the College’s first Electronic Engineering course and are developing our historic estate to provide a 21st century campus to meet the modern needs of people who live and work at our College today. Our state of the art library and student services building is scheduled to open in 2017. We are also creating a new science building and student residences and are planning a new home for our Music and Media Arts courses.
Royal Holloway’s academics in the sciences, arts, business, economics and law come from all over the world and bring a global perspective to their teaching, research and collaborations.

Across 21 departments and schools, some of the world’s leading authorities in their field inspire students and colleagues to strive for success so that individually and as a community we are helping to ensure education and knowledge make a positive difference in the world.
School of Biological Sciences
92% of graduates in work or further study within 6 months (Unistats, 2015)

Classics
1st in the UK with 100% overall student satisfaction (National Student Survey, 2015)

Computer Science
11th in the UK for the quality of research output (REF, 2014)

Drama and Theatre
Top 10 UK drama department (Complete University Guide, 2016)

Earth Sciences
Top 10 UK department (The Guardian, Complete University Guide 2016)

Economics
2nd nationally for world-leading and internationally excellent research (REF, 2014)

Electronic Engineering

English
90% of students find course intellectually stimulating (NSS, 2015)

Geography
A top 10 UK department (The Guardian, 2016)

History
92% of graduates now in work or further study (Unistats, 2015)

Information Security Group
An outstanding research record and UK government funded Centre for Doctoral Training in Cyber Security

School of Law
95% of graduates in full time work or further study within 6 months (Unistats, 2015)
UK POLITICS
DEPARTMENT
FOR RESEARCH
INTENSITY
(Times Higher Education, 2014)

TOP 10 IN THE UK FOR MARKETING
(Complete University Guide, 2016)

School of Management

Mathematics

RANKED 2ND IN THE UK FOR RESEARCH IMPACT
(REF, 2014)

Media Arts

TOP 10 UK MEDIA DEPARTMENT FOR GRADUATE PROSPECTS
(Complete University Guide, 2016)

SOUTH EAST THE LARGEST CONTINUOUS PROFESSIONAL DEVELOPMENT TRAINING IN THE SOUTH EAST

TOP (Times Higher Education, 2014)

School of Modern Languages

Music

TOP 3 UK MUSIC DEPARTMENT FOR RESEARCH QUALITY CLASSED AS WORLD LEADING OR INTERNATIONALLY EXCELLENT AND TOP IN LONDON (REF, 2014)

Physics

TOP 9TH IN THE UK AND 81ST IN THE WORLD (Times Higher Education, 2016)

Politics & International Relations

Professional Studies

POOLING ACADEMIC EXCELLENCE WITH INDUSTRY RELATED KNOWLEDGE AND EXPERTISE

Psychology

TOP 5 IN THE UK FOR WORLD CLASS RESEARCH (REF, 2014)

Social Work

THE LARGEST CONTINUOUS PROFESSIONAL DEVELOPMENT TRAINING IN THE SOUTH EAST
Kathy Rastle is Head of the Department of Psychology, Professor of Cognitive Psychology and leads a research portfolio that investigates the mental and neural processes that underpin human language and reading.

Her research brings together methods from linguistics, psychology, computer science and neuroscience to identify the psychological processes involved in language and reading, model them using computer simulations and investigate how the brain supports these aspects of human experience.

Reading is one of the most remarkable of our cognitive abilities and a particular highlight of Kathy’s work is the development of a computer model that simulates how we read. This model has also been successful in helping us to understand how reading becomes impaired as a result of brain injury such as stroke or dementia, how children learn to read and the neural and genetic underpinnings of reading.

The development of education methods that help children to become skilled readers is critically important, as literacy is at the heart of achievement, economic growth, culture and well-being in our society. Kathy’s research has been at the forefront of improvements in primary literacy education and in new developments in special needs provision.

*Kathy completed her PhD in 1997 at Macquarie University (Sydney) and worked at the University of Cambridge before joining Royal Holloway in 2002.*
Kenny Paterson, Professor of Information Security, and his team in ISG are working to keep cyber space safe and secure through the creation of more secure software to help protect web users from cyber attacks.

Kenny and his researchers identified a flaw in The Transport Layer Security (TLS) protocol which provides security for online banking and credit card data when shopping online, used daily by millions of people. They discovered an attack could be launched on the TLS and identified where that attack could come from; a glitch whereby the protocol terminates TLS sessions and leaks a small amount of information to the attacker, who can use it to gradually build up a complete picture of the data being sent.

The path from scientific discovery to real-world impact normally takes years; but in this instance, every major web browser started using more secure software because of Kenny and his team’s research, reflecting the importance of the TLS protocol in securing our everyday activities on the web.

Going forward, Kenny and the ISG team have received funding to form a Quantum Communications Hub to develop game-changing secure communication technologies for consumer, commercial and government markets in the UK and globally.

George Dickson, Professor of Molecular Cell Biology, is leading world-class research in the development of novel therapies for rare diseases including Duchenne muscular dystrophy (DMD), for which he received a national award of Scientist of the Year in 2014.

Through their work here at Royal Holloway, George and his research team have made a breakthrough in the development of a treatment for DMD, a devastating condition affecting one in 3,500 male births in the general population, with 100 cases diagnosed in the UK each year. DMD causes progressive muscle weakness due to the breakdown and loss of muscle cells. Patients lack a single important protein in their muscle fibres called dystrophin. By age eight to 12, boys become unable to walk and by their late teens or early twenties the condition can become severe enough to limit life expectancy.

George’s research with the MDEX Consortium showed that a gene-based drug treatment was effective in restoring the dystrophin protein in seven clinical trial participants, an exciting milestone towards finding an effective treatment. Clinical trials continue and could lead to a new authorised medicine for DMD on the pharmacy shelf.

George completed his PhD in Biochemistry at UCL (previously The Middlesex Hospital Medical School) and taught at King’s College London before joining Royal Holloway in the mid-nineties.
Dan Stone, Professor of Modern History, is a historian of ideas who works primarily on twentieth-century European History. His research, alongside that of colleagues within Royal Holloway’s Holocaust Research Centre, is shedding new light on the Holocaust, one of the most significant events in 20th century European history. Through his work, Dan has helped to reshape several fields; contributing to redefining the field of genocide studies to make it more historically focused and showing how British eugenicists drew on continental European thinking to make the idea of race central to eugenic ideas.

His book, *The Liberation of the Camps: The End of the Holocaust and its Aftermath* is the culmination of his extensive research into the liberation of the Nazi camps and focuses on the survivors of concentration camp during the months and years after their liberation, making extensive use of survivors’ written and spoken memory. His work has resonated with a wide readership, who can now see more clearly how the genocide of the Jews affected the survivors and shaped the post-war world for years after 1945.

In 2015 Dan was awarded a Leverhulme Major Research Fellowship to investigate the International Tracing Service, considering its status as an archive of the Holocaust, and understand how massive archives shape our understanding of modern European history.

Dan completed his DPhil in History at the University of Oxford and was a Junior Research Fellow at New College, Oxford before joining Royal Holloway in 1999.
Celebrating the cultural contribution of amateur theatre

Helen Nicholson, Professor of Theatre and Performance, focuses her research on contemporary theatre and applied drama. She is currently the principal investigator for two major Arts and Humanities Research Council funded research projects, *Amateur Dramatics: Crafting Communities in Time and Space*, and *For Love or Money? Collaborations between Amateur and Professional Theatre*, in partnership with the Royal Shakespeare Company.

This research investigates some key areas including how amateur theatre contributes to sustaining, challenging and revitalising communities; the social and cultural significance of amateur dramatics as a craft, as a creative practice, as entertainment and as heritage; and how amateur dramatics illuminate questions of time, work and leisure time, longevity of amateur companies and amateur theatre as a lifelong commitment.

The research starts with an interest in the whole process of making theatre, from auditions and repertoire to rehearsals and audience, recognising the expertise of those involved in amateur theatre. By looking at these elements, the research project team can understand the relationship between community and creative practice in amateur dramatics. The culmination of the project will be to bring the findings to those who have widely ignored amateur theatre-makers in the past, including professional theatre, cultural policy-makers and academics with a view to changing attitudes towards amateur creativity within the cultural sector.

*Helen completed her PhD in Arts Education at the University of Warwick and taught at the University of Cambridge before joining Royal Holloway in 2000.*

Exploring the human condition through verse

Jo Shapcott, Professor of Creative Writing, teaches on the MA in Creative Writing as a practicing poet. Jo is widely recognised as being one of the country’s leading poets and is at the forefront of English poetry, being described as a ‘pioneer among contemporary British writers’ by The Guardian.

She has a host of literary prizes and accolades to her name, twice winning the UK’s National Poetry competition as well as the Commonwealth Poetry Prize for Best First Collection and the Queen’s Gold Medal for Poetry in 2011.

*Of Mutability*, her most recent book of poems, was named the Costa Book of the Year in January 2011. This collection of poems explores the nature of change, both in the body and the natural world, as well as in human interaction.

Poet Laureate Carol Ann Duffy, Chair of the Costa judging panel, described Jo’s work as combining, “accessibility with a deeply cerebral engagement, with all the facets of being human,” with judges saluting the, “calm but sparkling Englishness,” of her award-winning verse.

*Jo joined Royal Holloway in 2005, before which she was the Royal Literary Fund Fellow at Oxford Brookes University.*
### Analysing the impact of marketing on the individual, culture and society

Chris Hackley, Professor of Marketing, has undertaken research into product placement; the promotional use of brands in television scenes and other media in exchange for payment. The project began as a joint piece of work when the EU Audio Visual Media Services Directive asked governments to consider allowing commercial TV to earn revenue from product placement. This had never been allowed in the UK because of concerns over the separation of editorial and advertising. The research that Chris and his team carried out was widely covered in UK media and quoted in a UK Government consultation that led to the change in UK guidelines implemented in this area. Chris has continued to contribute research and comment on the topic, most recently in online magazines such as The Conversation. Chris is continuing with research projects into alcohol consumption and government policy, with other projects ongoing into the performance economy, transgressive consumption, marketing rhetoric, the marketing and consumption of celebrity, ritual and consumption and children and the internet.

Chris completed his PhD in Marketing at Strathclyde University and taught at Aston Business School and Birmingham University before starting the Marketing Teaching and Research Group as Royal Holloway’s first Chair in Marketing in 2004.
Applying economic practices to reduce civilian casualties

Michael Spagat is Head of the Department of Economics and a Professor of Economics. His research on civilian casualties of war has influenced the practices of NATO, the British military and humanitarian organisations, leading to a reduction in the number of civilian casualties arising from military actions in Afghanistan.

His very relevant work on the nature of modern warfare found evidence of a common ecology underlying insurgent conflicts. In particular, it discovered a common pattern in size and timing of violent events within modern insurgent wars and a connection to global terrorism. He concluded that there is a generic way in which humans ‘do’ insurgency and terrorism, when faced with a large powerful state force, and this is irrespective of background history, motivation, ideology, politics or geographical location. This does not mean that geography and ethnicity are irrelevant in conflicts, but only that we do not need to consider them to explain the day-to-day data that results from conflict. Mike’s research was a front cover article in Nature, the international weekly journal of science in 2009, and has been widely reported elsewhere.

Mike completed his PhD in Economics at Harvard and taught at Brown University before joining Royal Holloway in 1997.

Driving change in prison education

Rosie Meek is Head of the School of Law and a Professor of Forensic Psychology. Her research sits on the intersection between psychology and criminology with a particular expertise in prisons and the transition individuals make from custody to community. Rosie’s most recent publications have focused on the impact and evaluation of prison-based intervention programmes, the delivery of healthcare in prisons, the function of sport and physical activity in prison settings and the role of the voluntary sector in criminal justice. Rosie uses a range of methods in her research and is able to draw directly on her research in her teaching activities. She established and leads the prisons research group at Royal Holloway which brings together undergraduate, masters and doctoral students, as well as academic staff, in carrying out research in a range of prison settings.

Rosie completed her PhD in Psychology at the University of Sussex and held appointments at Southampton University, Teesside University and the Howard League for Penal Reform before joining Royal Holloway in 2013.
Universities today must be net contributors, and we recognise our responsibility to make a positive difference in our borough of Runnymede, in the county of Surrey and to the reputation of the UK at home and internationally.
Our economic impact

**Fuelling the local economy**

- £481.2m: The amount we contributed to the UK economy
- £167m: The amount directly benefitting the Borough of Runnymede
- £221m: The amount directly benefitting Surrey
- £58.5m: The estimated amount that Royal Holloway employees spent in the UK

- £7.1 million: The estimated amount of employee spend within the Borough of Runnymede
- 1.5%: The amount Royal Holloway adds to Surrey’s contribution to the UK economy
- In 2012: Surrey was described by Enterprise M3 as the fastest growing sub-regional economy in the UK

**The national picture**

- £60.7m: How much overseas income we helped to attract to the UK
- 1st: Our Information Security MSc was the first of its kind in the world

- In 2014: four Master’s degrees in the UK to receive full certification for excellence in cyber security from GCHQ
- 150: The number of students who graduate with an MSc in Information Security each year from Royal Holloway
- £2.8bn: The value of the cyber security market in the UK according to the Department for Business, Innovation and Skills. We are a key part of that success story

**Supporting employment**

- 3,400: The number of jobs Royal Holloway supports in Runnymede
- 1,335: The number of jobs directly supported by the college
- £4.1 million: Value of contracts that went to local companies in Surrey and Runnymede

- 4,462: The number of jobs Biggar Economics established that Royal Holloway supports in Surrey

Our cultural impact

We recognise our responsibility to our local community and every year hold over 50 events covering the arts and humanities, science and social sciences.

We have hosted our hugely popular annual Science Open Day for the last 20 years. The event celebrates science and attracts around 6,000 visitors each year.

Year after year, Royal Holloway has been recognised as one of the University of London’s best sporting colleges, with some 80 sports teams and more than 1,500 members competing in British Universities and Colleges Sport (BUCS).

Our choir is considered to be one of the finest mixed-voice collegiate choirs in the country. In 2015 they performed in churches, cathedrals and universities across the USA and Canada and to Her Majesty The Queen as part of the Runnymede Magna Carta celebrations. They will tour North America again in 2016.
Royal Holloway was at the heart of the 800th anniversary celebrations of the sealing of Magna Carta, an event of national and international significance. The great document was sealed just a few miles from our home, in what is today known as Runnymede in Surrey. We were delighted to host, support and lead a huge range of Magna Carta activities and events which included the Great Charter Festival, when over 5,000 people came to our campus to explore the legacy of Magna Carta and our free massive open online course which was enjoyed by over 30,000 people from around 165 countries. Through our newly launched Institute of Freedoms we will provide a lasting legacy for future generations by addressing threats to our freedom and personal liberty in a digital age.
Innovative and impactful partnerships

Today, success relies on collaboration. Institutions, public bodies and private companies need access to the brightest minds, the most skilled personnel and the latest research if they are to win in today’s competitive market.

Our research with Syngenta, the world’s largest agrochemicals company, is helping to enable millions of farmers to make better use of available, and finite, resources.

We are working with British Gas to help them with the Big Data challenges and opportunities that are emerging as they introduce Smart Metering across the UK.

Thanks to our close relationship with the business community we play an important role in national and regional economic success. We provide businesses, from local companies to global corporations, in sectors such as energy, pharmaceuticals, telecommunications and IT, with cutting edge knowledge and creativity.

Our partnerships with over 80 universities around the world, including the Ritsumeikan University in Japan, Renmin, Shandong and Langzhou universities in China and the University of California in the US, provide students with exchange and study abroad opportunities.

Global research collaborations

Our portfolio in Physics continues to expand through the exploration of exciting new directions of research and as a result of our strong involvement in strategic research partnerships such as those with CERN and the National Physical Laboratory (NPL). At CERN, for example, the ATLAS experiment is collecting data produced by the Large Hadron Collider (LHC). Our physicists played an important role in the 2012 discovery at the LHC of the Higgs boson and are studying the new particle’s properties.
Inspiring support to global leaders

Our Psychology department is using novel methods of vision analysis to assist the global market leader in eye tracking and eye control, Tobii Technology, Sweden. Conventional vision processing techniques are computationally demanding and vulnerable to unexpected image changes. The Royal Holloway team is working on alternative approaches inspired by the mechanisms underlying attention and motion processing within the human brain.

Life changing research partnerships

Supported by the charity Muscular Dystrophy and with match funding from Royal Holloway, Dr Linda Popplewell, a Research Officer within the School of Biological Sciences is beginning a five year Lectureship to develop research into Duchenne muscular dystrophy - a life-limiting muscle-wasting condition. Few people with the condition live beyond the age of 30.

Dr Popplewell and her team aim to develop a genetic therapy for the condition which affects 2,500 children and young people in the UK. If successful, the therapy could help up to 85% of people living with the condition in the future.

Applying knowledge for commercial success

Royal Holloway provides occasional specialist analyses and reports for AMEC, one of the world’s leading engineering, project management and consultancy companies. Miguel Diaz, Associate Director of AMEC Earth & Environmentals UK mining business, says: “It means our mining services business can provide a fully integrated service to our clients and we can be fully confident in the quality of test data material.”
Preparing our students for success beyond campus

Our goal is to inspire students to succeed at university; academically and socially and be ready for life beyond campus.

PLACEMENTS ARE A TWO-WAY STREET

“I provided a two-week micro-placement to a second-year undergraduate studying music this summer. The placement gave our visiting student an opportunity to really apply their skills and they were a great help to us. We all benefited from the experience.”

Michael Ward, Founder and Managing Director of City Academy
Building soft skills

To help achieve this we work in partnership with employers and local organisations to give our students the opportunities to develop some of the softer skills they’ll need to be attractive employees. This includes communication skills, team work, time management and problem solving.

In the last academic year over 3,500 student volunteers supported over 220 community partners and, in doing so, gained points towards our highly successful Passport Award. The Passport Award helps young people to identify the transferable skills they have and so know what strengths to highlight to future employers.

Seeking to create a level playing field

Many students work part time to support their studies and cannot afford to take time off from part-time work to take up an internship. Our Ignition Fund helps gifted but cash-strapped students to take up internships and placements that they simply couldn’t undertake without financial support.

The community spirit of our College lives on long after our students leave the shadow of Founder’s. We are delighted that each year many of our alumni return to share their experience, skills and insight to help the next generation. Placements are a two-way street.

Supporting access to practical experience

Increasingly employers look for recruits to have direct experience of the workplace. Through our award-winning micro placement scheme we put students through a real recruitment process before they take up a placement. This gives students confidence in their skills, and employers the reassurance that they are opening up their business to highly motivated and talented students.

GIVING BACK TO THE COMMUNITY

“When I was studying, I wasn’t aware the College invited alumni to talk about their careers. So when I attended Careers Week and a group of about 20 students showed up to hear me talk, I was pleasantly surprised. It was interesting to hear their concerns and to be able to offer some advice. I think graduates now have it tougher than I did. They have to be even savvier with their CVs, as there is a pool of people with the same qualifications.”

Anita Engebretsen, Senior Global Events Manager, emc3
Be part of our community

A partnership with Royal Holloway could involve the College supporting your goals by:

• carrying out research that matters to you and your business or organisation

• providing you with motivated, young people who can add value via a placement, internship or volunteering and giving them opportunities to be more equipped with the skills necessary to compete as attractive employees

• helping you to build awareness of your organisation, share its knowledge and expertise and inspire a new generation when you contribute to our lecture programme

Grow your business
Brian Matthews
brian.matthews@royalholloway.ac.uk
+44 (0)1784 414 140

Engage with and inspire some of London’s brightest students
Liz Wilkinson
elizabeth.wilkinson@royalholloway.ac.uk
+44 (0)1784 443 072

Be part of world leading research
Tony Greenwood
tony.greenwood@royalholloway.ac.uk
+44 (0)1784 414 691

Support our development
Caroline Hawley
caroline.hawley@royalholloway.ac.uk
+44 (0)1784 446 413
Our coat of arms

The motto means ‘to be rather than to seem’