





Welcome from the Provost



Trinity

at the heart of
Dublin, Ireland ...
the World

Trinity College Dublin, the University of Dublin provides a distinctive education and transformative student experience which lasts for a lifetime. It is a university with a global reputation which seeks to bring the best of Ireland to the world, and the best of the world to Ireland.

Since its foundation, over four centuries ago, Trinity has nurtured graduates who have helped to shape the history of Ireland and the wider world, and who continue to shape it today. Our graduates are part of a global network of over 110,000 alumni living across 130 countries worldwide.

Building on an outstanding track record of academic and world-leading research, the university is developing and implementing ambitious plans to embrace and meet the demands of 21st century education. I look forward to continuing to further Trinity's history of innovation and excellence in teaching, learning and research.

The strong history of philanthropy which stretches back over 425 years to Trinity's creation will continue to play a pivotal role in ensuring it continues to be one of the world's leading universities.

Trinity is a university which has always been a source of pride for its alumni and friends and we will build on these successes to ensure Trinity continues to positively impact Ireland and the world.

Dr Patrick Prendergast

Provost & President

9 of the top 10 global ICT companies
50% of the world's leading financial services firms
9 of the top 10 global pharmaceutical companies



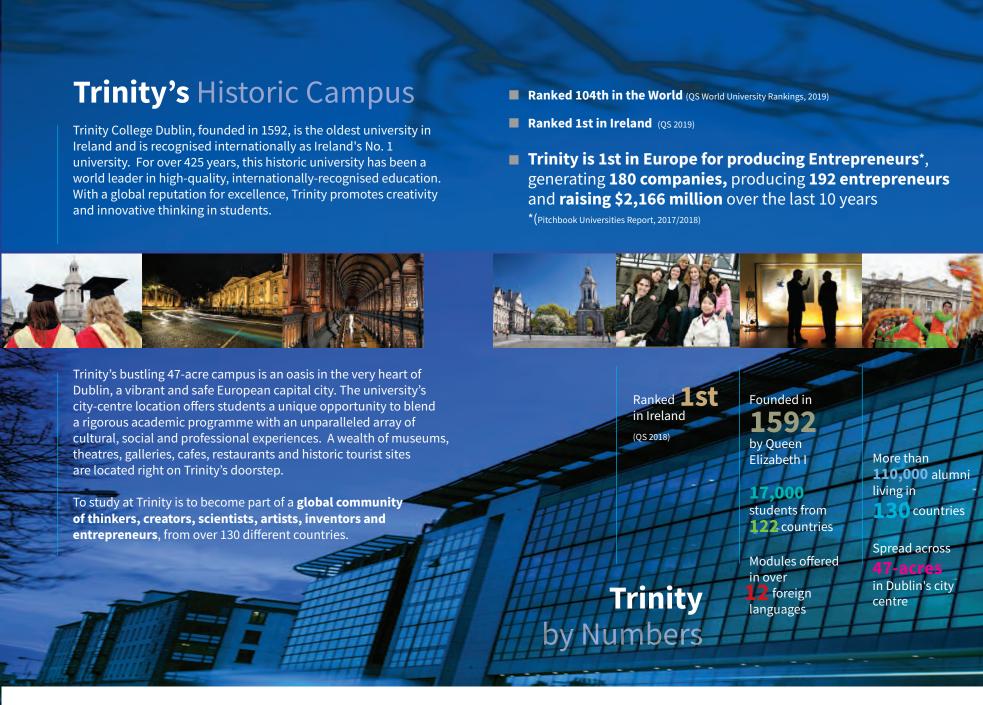
15 of the top 20 medical device companies6 of the top 7 diagnostic companies16 of the top 20 global software companies

Dublin



'Words are all we have'

- 2 Centre for Research on Adaptive Nanostructures and Nanodevices (CRANN)
- 3 Trinity College Institute of Neuroscience (TCIN)
- 4 Trinity Long Room Hub (TLRH)
- 5 The Trinity Translational Medicine Institute (TTMI)
- Advanced Materials and BioEngineering Research Centre
 (AMBER)
- © Centre for Future Networks and Communications (CONNECT)
- 9 Learnovate Centre





'I loved the illusion, the conviction, the desire - whatever you want to call it - that the words were agents rather than extensions of reality. That they made my life happen, rather than just recorded it happening'.



Experience World Class

Education

Trinity education fosters in our students a life-long desire for knowledge and understanding, a capacity for creativity and innovation, cross-cultural awareness and a sense of global citizenship.

Trinity continues to educate its students to be leaders in intellectual, cultural, social, political and economic life. A Trinity Education extends beyond the classroom and embraces co- and extra-curricular activity within the Student Experience, facilitating student internships with multi-national industry partners. The Trinity Graduate Attributes are the ability to think independently, to communicate effectively, to act responsibly and to develop continuously.

Faculties and Schools

With 3 faculties and 24 academic schools, Trinity offers courses in disciplines ranging from languages and literature to nanoscience and biomedical engineering.

- Faculty of Arts, Humanities and Social Sciences
- Faculty of Engineering, Mathematics and Science
- Faculty of Health Sciences

Undergraduate Programmes

Undergraduate students choose from over 400 full-time four-year courses, covering all disciplines. These include flexible subject combinations in Arts and Humanities, Science, Engineering and Health Science, allowing students to focus on the areas that interest them most. A full list of courses is available at: www.tcd.ie/courses/undergraduate

Postgraduate Taught and Research Programmes

Trinity offers a wide range of world-class postgraduate programmes at both Masters and Doctoral level.

Trinity's renowned interdisciplinary research centres and institutes attract leading researchers in every discipline, from pharmaceutical sciences and film studies, to history and ubiquitous computing.

With a tradition of scholarship spanning more than four centuries, Trinity is home to talented and inquiring minds, a liberal education, and research conducted at the frontiers of disciplines











For students with multiple academic interests, Two Subject Moderatorships (TSM) are double honours degree programmes. A list of possible combinations is available at www.tcd.ie/TSM

Trinity encourages its students to develop additional critical thinking skills by taking a course outside their main disciplines. To this end Trinity offers Broad Curriculum courses in a range of subjects such as art, business, contemporary Asian studies, European studies, gender & society, Greek art & architecture, history, linguistics, literature, philosophy, planet earth, political science, psychology, science & technology and theology.

For more information, see: www.tcd.ie/broad_curriculum

Many of our taught Masters programmes can be completed in a single year and are therefore highly cost-competitive in an international context.

For more information on taught and research postgraduate opportunities see www.tcd.ie/study

As a leading university
on the world stage, Trinity is
recognised for academic
excellence and
a transformative student
experience

Online Education

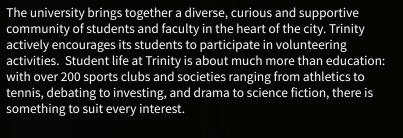
Trinity's Online Education initiative offers exciting online courses, allowing students to receive a Trinity-quality education from anywhere in the world.

For more information on all Online Education opportunities, please visit www.tcd.ie/OnlineEducation

William Trevor

Trinity Alumnus

'The capacity you're thinking of is imagination; without it there can be no understanding, indeed no fiction.'



The



- 200+ student societies, publications and sports clubs
- Oldest student societies in the world: 'The Phil' and 'The Hist', rival debating societies, date back over 300 years
- 7 student publications, including the 1st student newspaper in Ireland, founded in 1953
- 50+ sports clubs welcome members of all levels

Trinity is one of the world's only universities to provide all undergraduate students with a personal Tutor – a dedicated faculty member who can offer academic, personal and professional guidance throughout the four year degree programme. A wide range of student services, including learning development and support, peer mentoring, counselling and career advice, ensures that all students have the support they need to succeed in Trinity and beyond.



WENYI, UNDERGRADUATE BESS STUDENT FROM CHINA

"STUDENTS HERE HAVE
EASY AND WIDE ACCESS TO
BOTH PUBLIC SECTOR AND
CORPORATES DUE TO
TRINITY'S GREAT LOCATION
AND ITS EXCELLENT
REPUTATION."



Trinity Experience



as a mental concept; in the real world there are only individuals.'

Key Research Strengths and Impact





























Trinity's position as one of the world's leading universities is defined by our multidisciplinary, crossfaculty research and capacity to address issues of societal and economic importance globally. Our strength lies in the breadth and excellence of our expertise; from individual-scholars and thought-leaders, to large multidisciplinary teams, each delivering research of national and global importance.

For more see: www.tcd.ie/innovation Top 150 in terms of Research Impact Worldwide (Times Higher Education World University Rankings, 2018)

Trinity's international collaborations span more than **2,650 universities** and research institutions across 107 countries.

(Source: SciVal August 2016)



Trinity is the first and only Irish university to join the prestigious ranks of the **League** of European Research **Universities (LERU).**

Ireland is the **2nd** most successful nation in terms of European Research Council (ERC) success rates in first round of H2020, 47% of which has been awarded to Trinity The E3 will be **Trinity's Engineering, Energy and** Environment Institute, a major new engagement between the School of **Engineering and the School** of Natural Sciences.

The E3's vision is of an engineering-enhanced environment, and its mission is to propose and implement optimal technological and human interventions that will enhance our planet and our relationship with it.







Industry Engagement Collaboration Agreements Trinity reached 703 collaboration agreements between 2008-2015















"Today I have seen first-hand how AM which will not only help to solve so

5 Trinity Research Institutes











In 2015/16, Trinity benefitted from funding from **250 funding bodies** in 20 Countries



Number of Research Agreements with Industry

Research & Innovation

Outputs - 2015

Inventions Disclosed

Spinout Companies
Patents Granted
License Agreements

Patents filed

Trinity is Ireland's leading University in winning European Research Council (ERC) awards

Trinity ranks 1st in
Europe for producing
Entrepreneurs and is
the only European
university to feature in
the world top 50
(Pitchbook Universities Report

(Pitchbook Universities Report 2017-2018)

Industry Collaborations 2008-2015 To3 Collaboration Agreements



Trinity
Biomedical
Sciences Institute
(TBSI)



Trinity Long Room Hub (TLRH) The **Trinity Long Room Hub** is Trinity's flagship Arts and Humanities Research Institute.

TBSI is an innovative and interdisciplinary

initiative whose work leads to scientific

discoveries of biomedical importance,

giving rise to improvements in human

health and patient care.



Centre for Research on Adaptive Nanostructures and Nanodevices (CRANN) **CRANN** is Ireland's leading nanoscience institute, with over 300 researchers and 37 leading investigators of multiple disciplines.



Trinity College Institute of Neuroscience (TCIN) **TCIN** is an interdisciplinary research institute covering psychology, physiology, biochemistry, engineering, psychiatry and genetics.



Trinity Translational Medical Institute (TTMI) The focus of **TTMI** is on multidisciplinary patient-centered research. It aims to translate major discoveries to the development and implementation of novel diagnostics, drugs and treatments to enhance patient care.

IBER is conducting world-class material science research, cietal challenges, but also help to boost our competitiveness and create the jobs and growth needed in Europe."

Jonathan Swift

Trinity Alumnus

'Vision is the art of seeing things invisible.'

Global Brain Health Institute

The Atlantic Philanthropies gave €138.4 million to Trinity and the University of California, San Francisco (UCSF) in 2015 to establish the Global Brain Health Institute (GBHI). This groundbreaking initiative aims to tackle the looming dementia epidemic and improve health and dementia care worldwide. Dementia is among the most devastating illnesses globally, affecting over 48 million people, a number which is expected to double every 20 years if there are no effective interventions. The GBHI will train 600 global researchers over 15 years in the US, Ireland and across the world to carry out dementia research, deliver health care and change policies and practices. Trinity and UCSF are in an excellent position to deliver GBHI based on their existing strengths in brain health research.

€68 million

investment in Trinity – single largest philanthropic gift to an Irish university

600 world class researchers/trainees in Ireland over initial 15-year period

Offering a unique training experience to address issues of dementia care & prevention







Largest philanthropic donation in Irish History

Imagine being one of the world's most gifted thinkers.

Then imagine grappling with an idea so complex that it took over a decade to form properly in your own mind.

Research by William Rowan Hamilton professor in Trinity 1823

Inventor of the 'quaternions'
a mathematical calculation that underpins modern spaceflight



Jonathan Swift
Trinity Alumnus

'Vision is the art of seeing things invisible.'

Innovation and Entrepreneurship

Innovation & Entrepreneurship Hub

Trinity is committed to providing an environment that enables innovation and entrepreneurship at all levels across the university.

To this end Trinity has established the Innovation and Entrepreneurship (I&E) Hub, to be housed in a worldclass facility, co-located with an expanded School of Business. The I&E Hub has already taken great strides in implementing a strategy providing Trinity's community of students, staff and academics with the supports and facilities to pursue entrepreneurship as a viable and rewarding career path.

In addition the Hub will create a front door to the dynamic and burgeoning entrepreneurship community in Dublin and to the many Trinity graduate entrepreneurs who are creating or driving new businesses globally.



The I&E Hub encompasses a number of activities that contribute to Trinity's mission to deliver economic, cultural and social value through entrepreneurship.

These are:

- LaunchBox
- **Blackstone LaunchPad**
- LaunchLabs
- Innovation Academy
- EIT Health and Raw Materials

Startup accelerator open to teams of Trinity students with an early stage business.

In its first four years of existence

- Over 150 students have gone through the programme
- 40 jobs have been created by LaunchBox startups
- Over €3 million of investment has been raised

Blackstone LaunchPad

Blackstone LaunchPad at Trinity is an experiential entrepreneurship programme open to Trinity students, alumni, staff and faculty offering coaching, ideation and venture creation support.

Launchlabs

Trinity's Launchlabs Accelerator is a formal programme to support new campus company formation. The programme provides guidance and coaching to address the risks and responsibilities associated with running a company, and prepares founders and management teams to give them the best chance of success.



Innovation Academy

The Innovation Academy aims to develop a new kind of PhD graduate with a thorough understanding of how innovation can convert knowledge into products, services and policies for economic, social and cultural benefit.











Trinity has produced more Entrepreneurs than any other university in Europe*, generating 180 companies, producing 192 entrepreneurs and raising \$2,166 million over the last 10 years

*(Pitchbook Universities Report 2017-2018)

EIT Health & EIT Raw Materials

The European Institute of Innovation & Technology (EIT) is an independent body of the European Union set up in 2008 to promote innovation and entrepreneurship across Europe to overcome some of its greatest challenges. Knowledge and Innovation Communities (KICs) are partnerships that bring universities and research centres together with businesses to promote the development of innovative products and services, to create new start-up companies and to train new entrepreneurs.

The winners of the EIT's 2014 Call for Knowledge and Innovation Communities (KICs) proposals were the pan-European consortia InnoLife (EIT Health) and RawMatTERS (EIT Raw Materials), bringing together more than 150 partners, one of those being Trinity, from 20 EU Member States.

Future and Emerging Technologies (FET)

The EU Commission has committed €1 billion to the Graphene Flagship project led by CRANN. This is the largest ever research project funded in the history of the European Union.

Trinity Technology and Enterprise Campus

Trinity Technology and Enterprise Campus (TTEC) is based in Dublin's vibrant 'Silicon Docks', home to some of the world's largest technology companies including Google and Facebook.

The campus hosts a variety of activities including the National Technology Centre Learnovate, and The Tower, which acts as an incubation centre for Trinity.

Innovation
is at the heart
of the Trinity
learning
experience



Global Relations

Trinity provides an enabling and stimulating learning environment for students from diverse cultural backgrounds

Global Impact

For generations, Trinity has been recognised globally for its excellence in research and education.

We continue to deepen collaborations with peer institutions around the world and encourage student mobility.

A vibrant community of researchers and students across the university's three faculties addresses global challenges, including work in global health, climate change and globalisation.

Trinity College Dublin global community international students

Global Partnerships and Collaborations:

Our academic and research partnerships span the globe. Active partnerships and networks of leading global research-intensive universities include the Coimbra Group and the Consortium for Advanced Studies Abroad (CASA).





We are proud of our

welcoming, international

diversity and facilitates an

enriching student experience.

Trinity has connections with

virtually every country in the

world and has a long history

of international collaboration.

campus that celebrates









CASA was established as a non-profit consortium of nine leading research universities in the United States: Brown University, Columbia University, Cornell University, Dartmouth College, Harvard University, Johns Hopkins University, Northwestern University, The University of Pennsylvania, and Vanderbilt University.



framework for student mobility internationally through study centres around the world.

Trinity is the first CASA member from outside the United States to join the consortium.



William Campbell

Trinity Alumnus

'The greatest challenge for science is to think globally, think simply and act accordingly. It would be disastrous to neglect the diseases of the developing world. One part of the world affects another part. We have a moral obligation to look after each other, but we're also naturally obligated to look after our own needs. It has to be both.'

Trinity is a world-class educational institution, with a research-inspired curriculum





Trinity takes every opportunity to integrate all of our students, whether based in Dublin or abroad, into the global Trinity community

Global Campus

Our cosmopolitan, diverse campus supports an international student community from over 120 countries. 26% of our students come from outside of Ireland.

In addition, 40% of Trinity's faculty is international, reinforcing the institution's global outlook and connections in education and research.

The **Trinity Global Room** is an innovative space designed to link the university to the world. Acting as a platform to celebrate cultural diversity within Trinity, the Global Room is an area where students and staff can relax, converse and learn about different cultures and customs.

By partnering with leading universities globally, we have created opportunities for our students to broaden their study and career options and have enabled the same for the many students that study at Trinity from abroad.

Student exchange agreements are in place with more than 250 leading universities worldwide.

In recent years, increased opportunities for students to study in some of Asia's leading universities have been developed.

Trinity continues to pursue the development of joint programmes with institutions worldwide, building on those established in Singapore and India.

World Map - Global research collaborations 2011-2015

4270+ North America 15160+ Europe

1490+

240+ **Africa**

280+ South America





Graduate Prospects

Careers

Dublin, the European headquarters of companies such as Google, eBay, AirBnB, Microsoft, PayPal, LinkedIn and Facebook, is an ideal place for students interested in working in these world-leading corporations.

Trinity's enviable location positions the university right in the heart of the hub of global business activity, 'Ireland's Silicon Valley'. Students are recruited for internships, summer jobs and graduate careers from employers who look to Trinity as a key provider of top quality graduates.

> Trinity's Career Service ranked 2nd in Europe

of Trinity graduates are in employment or further studies within 6 months after completing their studies

Over **110,000** alumni in **130** countries worldwide





















Stanley Quek B.A, M.A., M.B. (1972)



Executive Chairman of Region Development Pte Ltd, the Group Managing Director and CEO of Frasers Property in

Australasia, UK and Europe

"I enjoyed my time in Trinity as a student and my connection with Ireland continues to enrich my life. I am delighted to be part of the global Trinity community."

Fiona Dawson B.B.S., M.A. (1988)Global President, Mars Food



"I absolutely loved my time at Trinity, it opened my eyes to so many new and exciting opportunities. The breadth of

subjects we studied set the groundwork for my love of running businesses, where you need to have a good grasp of different areas. Whilst I loved the course I did, I also found the social side was liberating. There is something very special about attending a university so steeped in history, located in the very heart of the city."

Alumni Testimonials

Paul R. Johnston B.A.I. (1976) CEO of Exponent Inc.



"I think the Trinity engineering programme that I went through from 1972–1976 was very strong and it prepared me very well for

what was to be my future career. Part of the reason was that it gave me a strong background in mathematics and computer science, in addition to an appreciation of engineering principles. This helped me to go on and pursue a Master's Degree and Ph.D. at Stanford University in California and further my engineering career."

Priya Nair B.A. (1997) Managing Director, Royal Bank of Canada Capital Markets



"I had a wonderful time at Trinity. Once you attend there as a student, your bond with the university never dies. While

studying biochemistry and genetics as an undergraduate I was challenged academically but I equally loved my time spent on extracurricular activities from serving as Students' Union President to being involved in clubs and societies. Today, I remain involved through alumni branches in London and South Asia and I am proud of being part of the Trinity global network."

Oscar Wilde Trinity Alumnus

'The critic has to educate the public; the artist has to educate the critic.'

Philanthropists

Supporting the Development of Trinity



Chuck Feeney, Founder, the Atlantic Philanthropies

The Atlantic Philanthropies supported Trinity College Dublin to the tune of €300 million. Starting with the launch of the Programme for Research in Third Level Institutions (PRTLI) in 1998, The Atlantic Philanthropies ushered in a new era for research and innovation in Trinity.

Chuck Feeney has become the most generous benefactor to Trinity since its foundation.



Martin and Carmel Naughton, the Naughton Foundation

In 2008 Mr and Mrs Naughton invested in the Naughton Institute, a state-of-the-art nanoscience facility CRANN. Trinity today, on a per researcher basis, is among the top in the world in Nanotechnology and in Material Science. Since the initial investment the Naughtons have supported a number of other initiatives including STEM scholarships.

"Each year we are amazed to see the calibre of the fine young people who apply to us. It gives us great pleasure to support their STEM studies and we hope it will be of great benefit to them and Ireland in years to come."



The Cathal Ryan Trust and Danielle Ryan

In 2010 The Capt. Cathal Ryan Trust represented by Danielle Ryan funded the construction of the new Lir Academy, a purposebuilt facility to train a new generation of actors and others involved in stagecraft.

"My late father and I had many discussions about creating a drama academy in Ireland.
The Trust and Trinity share a common passion to create a training academy that will have a world-class reputation in the dramatic arts, one that would enable Irish students to realise their ambitions on stage and on screen throughout the world."



Beate Schuler, Founder, Iropharm Ltd.

In 2003 Dr Beate Schuler donated the Double Helix sculpture by Brian King to Trinity. Later Dr Schuler funded PhDs and professorships in chemistry.

She also contributed to the Science Gallery and Trinity Biomedical Sciences Institute, where a seminar room is named after her father, Dr Wilhelm (Fips) Schuler.

"I lived most of my working life in Ireland, I have earned my money in Ireland, I had my company in Ireland and I think it is one of my duties and my pleasures to give something back to the society of Ireland."

"It is gratifying to know that Trinity continues to succeed in its great achievements."



'Human rights are inscribed in the hearts of people; they were there long before lawmakers drafted their first proclamation.'



Trinity is a university of global consequence, known for realising student potential and for research and scholarship that benefits Ireland and the world



Trinity College Dublin, the University of Dublin College Green Dublin 2 Ireland

Tel: +353 1 896 1000

www.tcd.ie

