

## Research Institutes and Centres

Staff with an affiliation to a research institute/centre are listed under their respective school or department.

### Trinity Research Institutes

#### CENTRE FOR RESEARCH ON ADAPTIVE NANOSTRUCTURES AND NANODEVICES (CRANN)

The Centre for Research on Adaptive Nanostructures and Nanodevices (CRANN) comprises a team of three hundred researchers from over forty-five different countries, led by eighteen principal investigators and seventeen investigators, each of whom is an internationally recognised expert in his/her field of research. CRANN principal investigators are based across multiple disciplines including physics, chemistry, medicine, biochemistry and immunology, engineering and pharmacy. CRANN works at the frontiers of nanoscience developing new knowledge of nanoscale chemical and physical phenomena, with a particular focus on new device and sensor technologies for the ICT, biotechnology and medical sectors.

CRANN has two state-of-the-art buildings both custom designed and constructed for the purpose of leading edge nanoscience research. The Naughton Institute is a 6000m<sup>2</sup> research facility on the campus of TCD. The CRANN Advanced Microscopy Laboratory (AML) was completed in 2009. This facility on Pearse Street houses Ireland's most advanced microscopy instrumentation, enabling Ireland to compete internationally in this capability.

Through the SFI funded Centre for Science, Engineering and Technology (CSET), CRANN had a specific remit to work with industry. This led to CRANN leading the €120 million AMBER (Advanced Materials and BioEngineering Research) centre award, where TCD, UCC, RCSI, DCU, UL, TUS, Tyndall, UCD and NUIG researchers partner with industry to collaboratively address materials related research programs. This award is SFI funded, based on industry direct cash and in-kind contribution. CRANN has been very successful in obtaining non-Exchequer funding (e.g. European Union Frameworks, H2020, ERC's) that enabled the establishment of an extensive academic partnership network involving over a hundred European universities and one hundred and sixty universities globally.

CRANN has been funded predominately by Science Foundation Ireland and has also obtained competitive funding from the Higher Education Authority, Enterprise Ireland, industry, the EU Commission, and philanthropic sources, notably Dr Martin Naughton. See [www.tcd.ie/crann](http://www.tcd.ie/crann).

#### *Director*

**Stefano Sanvito**, CAV. DELL'ORDINE DELLA STELLA D'ITALIA, LAUREA (MILAN), PH.D. (LANC.), M.R.I.A., F.T.C.D. (2006)

#### *Deputy Director*

**John Francis Donegan**, B.SC. (N.U.I.), M.A., M.SC. (N.U.I.), PH.D. (N.U.I.), C.PHYS., F.INST.P., F.T.C.D. (2000)

#### *Executive Director*

**Lorraine Byrne**, B.SC. (D.C.U.), PH.D. (D.C.U.), P.G.CERT. NANOTECHNOLOGY (OXON.), M.R.S.C., M.A.C.S.

#### THE TRINITY LONG ROOM HUB

The Trinity Long Room Hub (TLRH) is the research institute for the arts and humanities at Trinity College Dublin. Founded in 2006, the TLRH is comprised of a community of researchers drawn from the university's nine arts and humanities schools as well as the Trinity College Library. It is dedicated to supporting research excellence and advancing interdisciplinary research in the arts and humanities. It is also committed to promoting the importance of this research for society and raising the profile of Trinity's arts and humanities internationally. It organises the work of the institute around a number of key research themes and supports the delivery of research on major questions facing society through a variety of means such as international visiting research fellowships, competitive research funding, hosting over 200

## Research Institutes and Centres

research related events and activities a year, and supporting forty-four of its partnering schools research students and postdoctoral fellows each year. See [www.tcd.ie/trinitylongroomhub](http://www.tcd.ie/trinitylongroomhub).

### *Director*

**Eve Veronica Patten**, B.A. (OXON.), M.PHIL., PH.D., M.R.I.A., F.T.C.D. (2006)

### *Deputy Director*

**Ciaran O'Neill**, B.A. (N.U.I.), M.A. (N.U.I.), PH.D. (LIV.), F.T.C.D. (2019)

### *Executive Director*

**Caitriona Curtis**, B.A. (N.U.I.), PH.D. (N.U.I.), H.DIP.ED. (N.U.I.)

## TRINITY BIOMEDICAL SCIENCES INSTITUTE (TBSI)

The Trinity Biomedical Sciences Institute (TBSI) is the largest research institute in Trinity and is one of the premier biomedical research institutes in Ireland. TBSI currently accommodates seventy principal investigators (PIs), over one hundred postdoctoral fellows, and over two hundred postgraduate researchers from five schools, the School of Biochemistry and Immunology, the School of Chemistry, the School of Medicine, the School of Engineering (Bioengineering) and the School of Pharmacy and Pharmaceutical Sciences.

TBSI is recognised internationally as a leading centre for ground breaking research discoveries on the fundamental mechanisms of human diseases, leading to new treatment approaches for these diseases. TBSI researchers collaborate extensively with researchers in other institutions throughout the world. The original vision put forward for TBSI when founded in 2012 was for a biomedical research institute focused on three areas: immunology, cancer and medical device technology. These focus areas have facilitated cross-disciplinary research leading to scientific discoveries of biomedical importance, ultimately giving rise to better patient care. TBSI is an innovative and interdisciplinary institute, where PIs and their teams are driving world class translational research on the mechanistic basis for a range of diseases, including infectious and inflammatory diseases, such as arthritis, asthma/allergy and type 2 diabetes, neurological diseases, such as motor neurone disease and multiple sclerosis, and different forms of cancer. There have been several innovative advances in tissue engineering for corneal replacement, bone and joint replacement, and treatment of different forms of cancer.

To facilitate research excellence, the institute has established a wide range of core technologies of the highest standard, including flow cytometry, confocal microscopy, transgenics, nuclear magnetic resonance spectrometry (NMR), biological transmission electron microscopy (TEM) and x-ray crystallography. A category 3 facility is available for research into hazardous biological agents such as HIV and hepatitis C. TBSI also houses significant biomedical teaching facilities, including lecture theatres, seminar rooms and teaching laboratories. Over 1,100 undergraduate students attend classes in TBSI each year, including Senior Sophister students of biochemistry and immunology and preclinical students of medicine. Over ninety students undertake M.Sc. courses, including bioengineering and immunology.

The institute also supports several spin out companies and has a growing number of partnerships with pharmaceutical and medical device companies. TBSI researchers have raised about 20 per cent of all of the research funding in TCD in the last five years (€16.5m total grant income for the 2017/18 academic year) and significantly more ERC and SFI investigator-led research grants than any similar sized cohort of biomedical scientists in Ireland. In 2018, four TBSI PIs were named as Clarivate highly cited researchers. TBSI PIs and their research teams have produced over 1,000 peer reviewed publications over the past five years with national, international and industrial collaborators. TBSI aims to continue to foster a spirit of interaction, exploration and collaboration on the frontiers of biomedical research, such that truly ground-breaking discoveries can be made. See [www.tcd.ie/biosciences](http://www.tcd.ie/biosciences).

### *Academic Director*

**Kingston Henry Gordon Mills**, M.A., PH.D., F.R.A.M.I., M.I.BIOL.I., M.R.I.A., F.T.C.D. (2004)

### TRINITY COLLEGE INSTITUTE OF NEUROSCIENCE (TCIN)

The Trinity College Institute of Neuroscience (TCIN) is a Trinity research institute with about sixty Principal Investigators (PIs) and 250 researchers from a wide range of disciplines including psychology, psychiatry, physiology, pharmacology, medicine, biochemistry, engineering, computer science, and genetics, among others. These diverse disciplinary origins contribute to its core activities: promoting and supporting interdisciplinary basic and translational research, as well as teaching, public engagement, and national leadership in neuroscience.

The administrative and scientific hub of TCIN is based in the Lloyd Building on the Trinity College campus. The Lloyd Building houses several TCIN-managed advanced research technologies, including two high-field human and small animal magnetic resonance imaging (MRI) systems. TCIN PIs use and maintain preclinical cell and animal models, as well as molecular, cell biological, biochemical, behavioral, physiological and genetic technologies to study both humans and model organisms.

The institute provides a gateway for internal and external connectivity between basic and applied neuroscience. TCIN facilitates access to advanced research and diagnostic technologies as well as to patient populations, biosamples, and genotyping required for translational neuroscience, which prominently and deeply involves clinical PIs based in St James's, St Patrick's and Tallaght hospitals. St James's additionally houses CAMI, a clinical neuroimaging facility as well as the Wellcome Trust/Health Research Board clinical research facility for clinical trials.

TCIN houses strong research programmes funded by Science Foundation Ireland, the Wellcome Trust, the Health Research Board, the European Research Commission/Horizon 2020 framework programmes, as well as multiple philanthropic and industrial sponsors. In 2016, Trinity College Dublin launched the Global Brain Health Institute (GBHI), a major collaboration between Trinity College Dublin and the University of California San Francisco led in Ireland by TCIN PIs Brian Lawlor and Ian Robertson. This highly collaborative, training and research programme, created through a \$170 million investment from Atlantic Philanthropies, aims to prevent and improve management of global dementia. It has the recruitment of outstanding new PIs, as well as increased focus on the cognitive ageing.

TCIN PIs teach an interdisciplinary undergraduate programme leading to a B.A. (Mod.) in Neuroscience, as well as having a leading role in the popular M.Sc. in Neuroscience (the only one in Ireland). New infrastructure developments planned in neuroscience include the installation of an accelerated computing resource with secure storage to address major neuroscience research areas using machine learning/artificial intelligence, and the installation of an Optically Pumped Magnetometers-Magnetoencephalography (OPM-MEG) system, both expected to be installed in 2025.

The institute supports and connects strengths in different disciplinary strands, to create new and impactful actions in all areas related to national and international neuroscience.

See [www.tcd.ie/neuroscience](http://www.tcd.ie/neuroscience).

#### *Director*

**Rhodri Cusack**, M.A. (CANTAB.), PH.D. (BIRM.), F.T.C.D. (2018)

#### *Deputy Director*

**Andrew Harkin**, B.SC. (N.U.I.), M.A., PH.D. (N.U.I.), F.T.C.D. (2011)

*Site Director of GBHI at TCIN and Conolly Norman Professor of Old Age Psychiatry (1999)*

**Brian Lawlor**, M.D. (N.U.I.), D.O. (R.C.P.I.), D.C.H. (N.U.I.), D.A.B.P.N., F.R.C.P.I., F.R.C.PSYCH., M.R.I.A., HON. F.T.C.D.

#### *Founding Co-director of GBHI*

**Ian Hamilton Robertson**, B.SC. (GLAS.), M.A., M.PHIL. (LOND.), PH.D. (LOND.), F.B.P.S.S., F.A.P.S., C.PSYCHOL., M.R.I.A., Fellow *emeritus*

### TRINITY TRANSLATIONAL MEDICINE INSTITUTE (TTMI)

The main physical presence of the Trinity Translational Medicine Institute (TTMI) is located within the St James's Hospital campus in Dublin 8. St James's Hospital is the largest acute

## Research Institutes and Centres

general hospital in Ireland. TTMI's remit extends across St James's, Tallaght University Hospital, Children's Health Ireland, and The Coombe Hospital, creating the new Trinity Translational Development Pathway, based on international best practice. The location of TTMI within the acute hospital setting, enhances the study of a broad spectrum of disease states underpinned by collaborations with fundamental, translational, and clinical research practitioners and biobank/patient accessibility. The close proximity of the Wellcome Trust – HRB Clinical Research Facility enables the expedient translation of clinical research breakthroughs into opportunities for regulated clinical trials.

The substantive co-operative institute currently houses approximately fifty principal investigators (PIs) and 160 research scientists working under research themes that include infection and immunity, cancer, genomics of disease and nanomedicine. The research is supported by a range of key enabling technologies that include high content analysis, flow cytometry, single cell sequencing, next generation sequencing, and microscopy facilities (including confocal, atomic force microscopes). PIs are funded by multiple funding bodies and charities including Science Foundation Ireland, Health Research Board, Irish Research Council, Enterprise Ireland, European Union, Irish Cancer Society, Breakthrough Cancer Research, and the Royal City of Dublin Hospital Trust.

### *Director*

[Aideen Catherine Long](#), B.SC. (N.U.I.), M.A., PH.D. (D.C.U.), F.T.C.D. (2012)

## Trinity Led Research Consortia & Inter-institutional Research Groupings

### ADAPT CENTRE FOR DIGITAL CONTENT TECHNOLOGY

The ADAPT Centre for Digital Content Technology is a Science Foundation Ireland funded research centre that pioneers new forms of proactive, scalable, and integrated AI-driven digital media technology that empower individuals and society to engage in digital experiences with control, inclusion, and accountability. ADAPT investigates new human centric AI techniques and technologies including personalisation, natural language processing, data analytics, intelligent machine translation, human-computer interaction, as well as setting standards for data governance, privacy, and ethics for digital content. ADAPT's breakthrough technologies and research applications in media interaction, digital humanities, health, data governance, and fintech are being applied across multiple industry domains. ADAPT has an interdisciplinary ethos incorporating leading experts from the complementary fields of computer science, electronic engineering, social sciences, communications, commerce/fintech, ethics, law, health, environment, and sustainability.

ADAPT is led out of Trinity College Dublin and combines the world-class expertise of researchers at Dublin City University (DCU), University College Dublin (UCD), Technological University Dublin (TU Dublin), Technological University of the Shannon (TUS), Munster Technological University (MTU), Maynooth University (MU) and University of Galway (UG).

### *Acting Director*

[David Lewis](#), B.SC. (STON), M.SC. (LOND.), PH.D. (LOND.)

### *Executive Director*

[Declan McKibben](#), B.A., M.B.A. (N.U.I.)

### ADVANCED MATERIALS AND BIOENGINEERING RESEARCH (AMBER)

AMBER is a Science Foundation Ireland funded centre that provides a partnership between leading researchers in material science and industry. Materials science has been described as the science of stuff! The centre researches materials that will transform everyday products of the future, from mobile phones to knee implants, batteries to beer bottles. AMBER brings together Ireland's leading material science researchers working across the disciplines of Physics, Chemistry, Bioengineering and Medicine; with an international network of collaborators and companies.

## Research Institutes and Centres

The clustering of material science research expertise, state of the art infrastructure, and a team of professional support staff has enhanced Ireland's international reputation in materials science research and driven increased investment from industry. Ireland's international ranking in the areas of nanoscience and materials science has increased from 6th and 8th respectively in 2013 when the centre was established, to 1st and 3rd in 2017. This ranking is based on publications and citations.

AMBER is jointly hosted in Trinity College Dublin by CRANN and the Trinity Centre for Biomedical Engineering, in collaboration with University College Cork, Royal College of Surgeons in Ireland, Dublin City University, University of Limerick and NUI Galway.

### *Director*

[Michael Morris](#), B.SC. (LIV.), PH.D. (LIV.), M.R.I.A., F.T.C.D. (2017)

### *Deputy Director*

Fergal Joseph O'Brien, B.A., B.A.I., PH.D., C.ENG., F.A.S., F.I.EI, M.R.I.A.

### *Executive Director*

[Lorraine Byrne](#), B.SC. (D.C.U.), PH.D. (D.C.U.), P.G.CERT. NANOTECHNOLOGY (OXON.), M.R.S.C., M.A.C.S.

## CENTRE FOR ECONOMICS, POLICY AND HISTORY (CEPH)

Founded in 2022, the Centre for Economics, Policy and History (CEPH) combines Trinity College Dublin and Queen's University Belfast, two institutions with existing clusters of research excellence in economic history on the island of Ireland. CEPH is the all-Ireland centre of excellence in economics, history and policy, funded by the north-south research programme of the government of Ireland, which helps both universities increase their capacity and enables them to lead the development of policy-relevant historical research. The centre has three pillars, frontier research: researchers at the centre use historical events to understand the historical drivers of contemporary economic trends and institutions on the island and across the globe; capacity building: the digitisation, collection and analysis of historical data provides vital services to other disciplines, and trains new generations of researchers in a multidisciplinary setting; and policy and dissemination: drawing on a rich historical record, the centre offers crucial context to modern-day decision makers in government, business, and non-governmental organisations. Understanding the deep historical roots of major challenges like global inequalities and climate change can help policymakers to address their consequences. Taking history seriously significantly enriches the study of economics and helps to deliver policy outputs relevant to meeting the United Nations sustainable development goals. The centre also provides training to new generations of economic historians, from offering internship opportunities for undergraduate students, to doctoral training and postdoctoral experience for early career researchers, to a series of outreach activities in secondary schools for pupils across the island.

### *Director*

[Gaia Narciso](#), B.SC. (LOND.), M.A., M.SC. (LOND.), PH.D. (BOCCONI)

## INSTITUTE OF POPULATION HEALTH

The Institute of Population Health (IPH) was opened in August 2016, based at the Russell Centre, Tallaght Cross in Dublin 24. It is a joint initiative of the Schools of Medicine and Nursing and Midwifery. Among the priority actions will be to provide an academic backdrop to the primary care centre and general practitioners who share the premises with the IPH. Focus will be on prevention and chronic disease prevention and management. A range of new postgraduate courses will be run from the IPH. Public health advocacy will also be a priority, together with major interaction with the community in Tallaght.

### *Director*

[vacant]

### *Chair of the Steering Group*

[vacant]

## Research Institutes and Centres

### LEARNOVATE CENTRE

Learnovate is one of Europe's leading research and innovation centres in learning technologies. An industry-led technology centre funded by Enterprise Ireland and hosted by Trinity College Dublin, Learnovate connects world-class academic research with entrepreneurs at the leading edge of the global learning technologies sector. Learnovate research fuses expertise in technology, the learning sciences, product design, user experience and strategic innovation to drive commercial success for our industry partners.

The aim of Learnovate is to maximise the growth potential of individual companies working in the EdTech and e-learning sector and enhance Ireland's competitiveness as a global leader for learning technology innovation. Learnovate's industry-led collaborative research programme develops and exploits breakthrough learning technologies for the collective benefit of Ireland's learning technologies sector. Member companies actively set the research agenda and receive preferential licensing opportunities for intellectual property arising from core research programmes.

Learnovate offers strategic research and innovation services to individual companies that develop learning technologies; and companies that acquire and use learning technologies. The centre's expertise and experience encompasses a wide range of learning contexts including corporate learning, higher-ed learning, school learning, and non-formal learning. Learnovate helps identify, secure and maximise the value of funding for member companies through innovation vouchers and innovation partnerships with Enterprise Ireland.

### CONNECT

CONNECT, formerly known as CTVR, is Ireland's Future Network and Communications research centre. Funded by Science Foundation Ireland, it is headquartered in Trinity College Dublin and brings together nine other academic institutions (Maynooth University, University of Limerick, Technological University Dublin, University College Cork, Dublin City University, University College Dublin, Tyndall National Institute, Cork Institute of Technology (Munster Technological University from January 2021) and Waterford Institute of Technology with TSSG (Telecommunication Software and Systems Group). CONNECT is also partnered with thirty-five companies ranging from large ICT multi-nationals to smaller and emerging indigenous companies.

CONNECT's mission is to research, develop and innovate new communication solutions to address many of the challenges facing society. At the core of the CONNECT research vision is the idea that the network will be performed into existence in response to service needs. CONNECT focuses on service-aware networks, network-aware services, responsive things and integration.

#### *Director*

[Daniel Kilper](#), B.S. (VIRGINIA POLYTECH.), M.S. (MICH.), PH.D. (MICH.), F.T.C.D. (2022)

#### *Executive Director*

[Patrick Vincent Kelly](#), B.A., PH.D.

#### *Deputy Director*

[Siobhán Clarke](#), B.SC. (D.C.U.), M.A., PH.D. (D.C.U.), M.R.I.A., F.T.C.D. (2006)

## Trinity Research Centres

### TRINITY ACADEMIC GASTROENTEROLOGY GROUP RESEARCH CENTRE (TAGG)

The Trinity Academic Gastroenterology Group (TAGG) is an active research and clinical team working collaboratively at Tallaght Hospital, St James's Hospital Dublin and Trinity College Dublin. TAGG is affiliated with Trinity Health Ireland (THI). Our vision is of excellence and innovation in service delivery and research in all fields of gastroenterology. The team is multi-disciplinary comprising gastroenterologists, surgeons, medical physicists, nutritionists, nurses, engineers, scientists and allied health professionals. Our principal investigators (PIs) collaborate

## Research Institutes and Centres

with national and international colleagues across Europe, North America, Canada and Ireland as well as with small and medium sized enterprises (SMEs) and industry partners.

### Co-directors

**Deirdre McNamara**, B.A., M.D., DIP. CANCER PREVENTION (N.C.I.), F.R.C.P.ED., M.R.C.P.I.

**Sinead Smith**, B.SC. (N.U.I.), PH.D. (D.C.U.)

## TRINITY ENGAGE – CENTRE FOR RESEARCH IN AGEING

Through strategic investment over the last decade, Trinity has developed a strong research capacity in ageing. Over one hundred and ten Trinity researchers are engaged in ageing-related research spanning fields of biology, public health, medicine, informatics, macroeconomics, finance, urban planning, engineering, technologies, globalisation and migration, the law, sociology, business and philosophy. The centre will create a unique hub of ageing-related research that will shape policies and programmes and foster multi-disciplinary collaborations, transforming Trinity from being world class to world leading in this field.

### Director

**Rose Anne Marie Kenny**, M.B. (N.U.I.), M.A., M.D. (N.U.I.), D.SC. (*h.c.* R.C.S.I), F.R.C.P.I., F.R.C.P., F.R.C.P.ED., F.E.S.C., HON. F.F.P.H.M.I., M.R.I.A., F.T.C.D. (2007) (*Ageing Theme Champion*)

## TRINITY CENTRE FOR AGEING AND INTELLECTUAL DISABILITY (TCAID)

TCAID addresses the inequalities and health disparities that occur for people with intellectual disability as they age. It achieves this through rigorous engaged research on the physical and social determinants of health and wellbeing, and through translating its findings to provide evaluative data on current policy initiatives and to inform future policy and practice. TCAID is underpinned by the Intellectual Disability Supplement to TILDA study (IDS-TILDA), which is internationally recognised as the first national longitudinal study on the ageing, health and wellbeing of older adults with an intellectual disability that parallels a study of the general population (TILDA). Translational efforts have resulted in the development and co-leading of the HSE-funded National Intellectual Disability Memory Service addressing prevention, assessment and post diagnostic supports for persons with intellectual disability and dementia, with additional supports for families and providers that replicates approaches being developed under the National Dementia Strategy. TCAID also leads Trinity PPI Ignite, part of a national network that is promoting and supporting meaningful partnerships between health researchers, patients and members of the public. An expanding portfolio of HRB, IRC, EU, HSE, NGO and NDA-funded and supported projects and international research linkages endorses TCAID as a premier international research centre on intellectual disabilities and ageing. The continuing support of degree-based education, of PhD and masters students and of masterclasses for practitioners also means TCAID is an innovative and progressive teaching environment, contributing to the preparation of future practice leaders and to engagement with government, intellectual disability service providers, and people with intellectual disability and their families. See [www.tcd.ie/tcaid](http://www.tcd.ie/tcaid).

### Director

**Mary McCarron**, R.M.H.N., R.G.N., R.N.T., B.N.S. (D.C.U.), M.A., PH.D., F.T.C.D. (2011)

### Co-director

**Eilish Burke**, R.G.N., R.N.I.D., B.N.S. (D.C.U.), M.A., M.SC., PH.D.

### Associate Director

**Martin McMahan**, B.SC. (N.U.I.), M.SC. (ST AND.), PH.D. (LANC.), P.G.C.E. (CHESTER)

## TRINITY CENTRE FOR ASIAN STUDIES

The Trinity Centre for Asian Studies provides a structure for multidisciplinary education in Asian Studies and integrates the university's actions in developing Chinese, Korean and Japanese Studies as well as other regionally-based scholarship and pan-Asian research. Located in the School of Linguistic, Speech and Communication Sciences, the centre acts as a focal point for Asian Studies and creates cross-College opportunities for collaboration and

## Research Institutes and Centres

outreach. Its teaching and research focus on contemporary society and culture, language learning, diaspora studies, and comparative studies including Asian-European studies. The centre's aim is to promote Asian Studies nationally and internationally, and in so doing, to be the leading knowledge centre in Ireland for policy-makers, business leaders and scholars in the field. The centre organises regular seminars and public lectures.

### *Director*

**Nathan Hill**, B.A. (HARV.), M.A. (HARV.), PH.D. (HARV.)

### *Deputy Director*

**Lorna Carson**, B.A., M.A. (COLLEGE OF EUROPE, BRUGES), M.PHIL., PH.D., F.T.C.D. (2015)

## TRINITY CENTRE FOR BECKETT STUDIES

The Trinity Centre for Beckett Studies is based at the Trinity Long Room Hub. It was founded in 2017 to promote and co-ordinate research activity in Beckett studies amongst staff and postgraduate students at Trinity College Dublin. The centre builds upon both the Samuel Beckett Summer School – which began in 2011 as a joint venture between the School of English and the School of Creative Arts – and encompasses the activities of the Samuel Beckett Laboratory and the Beckett postgraduate reading group. The only research centre of its kind in Ireland, it places Trinity College at the forefront of academic research, artistic practice, and public engagement involving the works of one of its most famous alumni, helping the university capitalise upon the Library's significant holdings of Beckett manuscripts. The Library has the greatest collection of Beckett's correspondence, and its Beckett collection has been an area of significant investment by the Library over several years. The centre encourages interdisciplinary approaches to Beckett and is also involved in a number of international collaborations.

### *Co-directors*

**Nicholas Johnson**, B.S. (NORTHWESTERN), PH.D., F.T.C.D. (2021)

**Julie Bates**, B.A., PH.D., F.T.C.D. (2024)

## TRINITY CENTRE FOR BIBLICAL STUDIES

The Trinity Centre for Biblical Studies continues Trinity's interest and investment in biblical studies over the past four centuries by providing a focus for a range of research activities and projects in this discipline. In keeping with the growing breadth of biblical studies as a discipline and the range of expertise and interests at Trinity, the centre promotes research in a variety of areas, with special focus on the study of the Bible in its ancient contexts, namely the ancient Near East, ancient Judaism, and early Christianity. The centre facilitates and disseminates research in these, and cognate, disciplines by drawing upon the expertise of its staff and associates within and beyond Trinity, as well as the rich resources of Trinity College's library and the Chester Beatty library.

### *Director*

**Benjamin Wold**, B.S. (MULTNOMAH UNIV.), M.A. (DUBL., JERUSALEM), PH.D. (DURH.), F.T.C.D. (2018)

## TRINITY CENTRE FOR BIODIVERSITY AND SUSTAINABLE NATURE-BASED SOLUTIONS (NATURE+)

The Trinity Centre for Biodiversity and Sustainable Nature-based Solutions (formerly the Trinity Centre for Biodiversity Research) was launched in December 2008 by Sir David Attenborough. Nature+ is a virtual centre of multidisciplinary researchers head-quartered in the School of Natural Sciences, that make discoveries about the natural world and human interactions with nature, and develop solutions for quantifying and sustainably managing ecosystems. Human health and wellbeing depend on functional ecosystems, geosystems and atmospheric systems, and the services they provide. These are the world system's living and non-living components including air, soils, water, plants, microbes and animals. This natural system directly or indirectly facilitates economic activity, but is also impacted by it. The Nature+ group works across disciplines and multiple stakeholders including businesses, community groups and local

## Research Institutes and Centres

authorities, to design future-proof solutions for sustainable ecosystems interacting with human systems that underpin health, wellbeing and economic activity. The centre finds new solutions to gain and manage sustainable relationships between humans and nature. The centre undertakes research into the discovery, valuation, sustainable use and renewal of natural systems and underlying ecosystem services and benefits. The centre investigates how natural, social, technological, built and financial resources combine to provide these benefits. The centre researches new tools and builds the knowledge base for sustainable resource use in the circular economy and bioeconomy.

### *Co-directors*

[Yvonne Buckley](#), B.A. (OXON.), M.A., PH.D. (LOND.), M.R.I.A., MEMBER ACADEMIA EUROPAEA, F.T.C.D. (2016)

[Iris Möller](#), B.A. (OXON.), M.A. (WALES (SWANSEA)), PH.D. (CANTAB.), F.R.G.S., F.B.S.G., F.T.C.D. (2021)

## TRINITY CENTRE FOR BIOMEDICAL ENGINEERING

The centre was established in May 2002 and has principal investigators drawn from the Schools of Engineering, Medicine, Dental Science and Natural Sciences in Trinity College, and from the Royal College of Surgeons in Ireland, Dublin City University, and University College Dublin. The aim of the centre is to facilitate the development of bioengineering research and to support interdisciplinary teaching initiatives in the field of biomedical engineering. The specific areas of research focus at present are: biomechanics and mechanobiology, tissue engineering and regenerative medicine, neural engineering, medical devices, and advanced drug delivery.

### *Chair of the Executive Committee*

[David Hoey](#), B.A., B.A.I., PH.D., P.G.DIP. STATS, F.T.C.D. (2021)

### *Director*

[Conor Timothy Buckley](#), B.A., B.A.I., PH.D., MIEI, F.T.C.D. (2020)

## TRINITY CENTRE FOR THE BOOK

This centre grows out of the vibrant College research theme in manuscript, print and book cultures. It is the first research centre devoted to writing, reading and book use on the island of Ireland, and involves close collaboration with its main partners, the Trinity Long Room Hub arts and humanities research institute, and the Trinity College Library, which via the digitisation initiatives that are part of Trinity virtual library and the Old Library redevelopment, is consolidating its status as a beacon of international best practice in special collections management.

The centre combines a focus on historical questions around the origins and development of writing systems, literatures and literary cultures, with research on issues related to textuality in society like literacy, reading and wellbeing, and policy issues around maximising access to Ireland's written cultural heritage.

### *Director*

[Mark Faulkner](#), M.A. (DUBL., OXON.), D.PHIL. (OXON.), F.T.C.D. (2023)

## TRINITY CANCER RESEARCH CENTRE (TCRC)

Cancer has been identified as a priority research theme based on the quality of research that has been generated by Trinity academics. There are over one hundred and eighty researchers from the School of Medicine and other Schools and Institutes across the College actively working on cancer projects as part of a vibrant interdisciplinary research community. Research in cancer incorporates basic biomedical and biomolecular research based at the Trinity Biomedical Sciences Institute and the Institute of Molecular Medicine, along with clinical research based in the teaching and affiliated hospitals, including St. James's, Tallaght, Coombe Women and Infants University Hospital and Our Lady's Hospital for Sick Children, Crumlin. The centre is part of the Trinity St James's Cancer Institute [TSJCI], which is a member of the Organisation of European Cancer Institutes [OECI].

## Research Institutes and Centres

### *Co-directors*

[Maeve Lowery](#), M.B. (N.U.I.), F.T.C.D. (2019)

[Michael John Kennedy](#), B.A., M.B.

### TRINITY INSTITUTE OF CARDIOVASCULAR SCIENCE

In June 2004, Trinity College established the Institute of Cardiovascular Science, a partnership between the College and its two main teaching hospitals: Tallaght Hospital and St James's Hospital. The aims of the institute are to increase the understanding of cardiovascular disease in order to improve and develop prevention, diagnostic, treatment and rehabilitation strategies. While the main focus of the institute is research; it is also engaged in the development and delivery of education and in co-ordinated service development. It offers an M.Sc. in Cardiology on the St James's campus.

### *Co-directors*

[Ross Thomas Murphy](#), L.R.C.P. & S.I., M.B. (N.U.I.), M.SC., M.D., M.R.C.P.I.

[Deirdre Ward](#), B.A., M.B., M.R.C.P.I.

### TRINITY CENTRE FOR COMPUTING AND LANGUAGE STUDIES

The centre was founded in 1996 as a pastoral and administrative home for the interdisciplinary moderatorship (B.A.) course in computer science, linguistics and a language, and as a focus for research collaboration in related areas within College, nationally and internationally. The centre contributes to the organisation of the Dublin Computational Linguistics Research Seminar, which is the product of collaboration among Dublin City University, Technological University Dublin, University College Dublin and Trinity College Dublin.

### *Director*

[Carl Vogel](#), B.SC. (LOYOLA), M.A., M.SC. (S. FRASER), PH.D. (EDIN.), F.T.C.D. (2002)

### TRINITY CENTRE FOR CONSTITUTIONAL GOVERNANCE (TRICON)

The Trinity Centre for Constitutional Governance (TriCON) is a research centre based in the School of Law which undertakes and promotes research, teaching and public engagement on all aspects of constitutional law and governance, both in Ireland and across the world. Scholars at the centre share a broad range of research interests, spanning the fields of constitutional law, comparative constitutional studies, administrative law, human rights, E.U. law, international public law, democratic theory, legal philosophy and more.

### *Director*

[Aileen Kavanagh](#), B.C.L. (N.U.I.), M.A. (N.U.I.), M.L.E. (HANOVER), D.PHIL. (OXON.), F.T.C.D. (2021)

### TRINITY CENTRE FOR CONTEMPORARY IRISH HISTORY

The centre promotes research in recent Irish history. Its graduate students and postdoctoral fellows and associates manage their discrete projects within a framework which facilitates dialogue and interaction with researchers in their own and in related disciplines inside and outside College, as well as the sharing of research tools and experience.

### *Academic Director*

[Lindsey Earner-Byrne](#), B.A. (N.U.I.), PH.D. (N.U.I.), F.T.C.D. (2024)

### TRINITY CENTRE FOR CREATIVE TECHNOLOGIES AND MEDIA ENGINEERING

The future of the creative arts lies in a robust engagement of the artist, engineer and scientist. The Trinity Centre for Creative Technologies is harnessing the university's critical mass in the technologies and science that underpin the creative and entertainment industries, and in partnership with these industries, pioneering new research and graduate programmes relating to creative technologies and new media.

### *Co-directors*

[Francis Morgan Boland](#), B.E. (N.U.I.), M.A., PH.D. (C.N.A.A.), C.ENG., FIEI, *Fellow emeritus*

[Anil Kokaram](#), B.A. (CANTAB.), PH.D. (CANTAB.), C.ENG., FIEI, F.T.C.D. (2001)

### TRINITY RESEARCH CENTRE FOR CULTURES, ACADEMIC VALUES AND EDUCATION (CAVE)

CAVE focuses its research, teaching and outreach activity on the study of higher education both in Ireland and internationally. The centre brings together staff with expertise in the areas of educational theory, philosophy of education, sociology, history and policy. It undertakes both funded and non-funded research that inquires into educational initiatives and processes in the field of higher education, using a broad range of methodological approaches, and contributes to the M.Ed. in Higher Education offered by the School of Education.

### *Co-directors*

[John Walsh](#), B.A., M.LITT., PH.D.

[Andrew Gibson](#), B.A. (N.U.I.), M.PHIL., PH.D.

### TRINITY CENTRE FOR DIGITAL BUSINESS AND ANALYTICS

The Trinity Centre for Digital Business and Analytics (CDBA) conducts research in all aspects of digital mediation and interactions between data, businesses and people. Its purpose is to showcase and galvanise in-house expertise, facilitate cross-disciplinary collaboration, create and disseminate relevant knowledge, and increase research funding opportunities through industry sources and possibly research grants applications. The research centre investigates how digital technologies are transforming key areas of business research such as business analytics (e.g. big data and AI), strategy (e.g. digital business models and digital transformation), consumer behaviour and marketing (e.g. digital advertising and omnichannel), business ethics (e.g. data privacy and security), finance (e.g. digital currency and fintech), human resources (e.g. HR analytics and management of millennials) and business research methods (e.g. PLS-SEM (Partial Least Squares Structural Equation Modelling)).

### *Academic Co-directors*

[Ashish Kumar Jha](#), B.TECH. (G.G.S. INDRA.), M.A., PH.D. (I.I.M. CALCUTTA)

[Na Fu](#), B.A. (NORTHEASTERN (SHENYANG)), M.A., PH.D. (D.C.U.), F.T.C.D. (2020)

### TRINITY CENTRE FOR DIGITAL HUMANITIES

The Trinity Centre for Digital Humanities, based in the Trinity Long Room Hub, brings together researchers and practitioners from many disciplinary backgrounds and College units to facilitate the novel investigation, analysis, synthesis, and presentation of information in electronic form. Although primarily focused on facilitating research at the intersection of technology, humanities and cultural materials, the centre also builds on past achievements to create new synergies and opportunities for collaboration and cross-disciplinary research, methodological innovation, and sharing of good practice across projects and approaches.

### *Co-directors*

[Owen Conlan](#), B.A., B.A.I., PH.D., F.T.C.D. (2015)

[Jennifer Edmond](#), B.A. (BOSTON), PH.D. (YALE), F.T.C.D. (2023)

### TRINITY CENTRE FOR EARLY MODERN HISTORY

The centre promotes understanding of the culture, society, economy, religion, politics and warfare of early modern Europe. The centre organises seminars, conferences and public lectures on the early modern history of Ireland, Britain and Continental Europe, as well as on relations between European and non-European states and cultures. Postdoctoral and postgraduate researchers undertake projects within a framework which promotes dialogue and exchange around shared interests in the early modern period. The centre also hosts externally-funded

## Research Institutes and Centres

research projects, and contributes to the taught M.Phil. in Early Modern History offered by the Department of History.

### *Director*

[Patrick Walsh](#), B.A., PH.D., F.T.C.D. (2023)

## TRINITY CENTRE FOR THE ENVIRONMENT

Founded in 1979, the Trinity Centre for the Environment (TCE) acts as a focus for interdisciplinary research in environmental sciences. It provides a diverse range of laboratory and field support to a large community of academics and researchers. The TCE provides critical research infrastructure for the School of Natural Sciences, and acts as a focus for visiting academics and researchers. The centre is managed by the director, who also chairs the management committee comprising the resident members, as well as representatives of the student body and School. It is located in the former anatomy building in the heart of College.

### *Director*

[Quentin Crowley](#), B.SC. (N.U.I.), M.A., PH.D. (N.U.I.), F.T.C.D. (2019)

## TRINITY CENTRE FOR ENVIRONMENTAL HUMANITIES

The Trinity Centre for Environmental Humanities focusses on the history of human agency in planetary change. The centre promotes multidisciplinary research in a collaborative work space, and provides teaching at undergraduate and postgraduate levels both within the School of Histories and Humanities in Trinity, and beyond. Main fields of research are the history of the marine and coastal environments, climate, and wetlands. The centre has expertise in methodologies such as digital humanities, mixed methods (quantitative/qualitative), geographical information systems, research on research, and outreach and inter-sectoral communication. The centre houses a number of international (H2020, ERC, COST, NSF, Riksbanken Jubileumsfond) and national (IRC, Marine Institute, Environmental Protection Agency) research projects, and is the first Irish lead recipient of the ERC Synergy grant. The centre aims to raise environmental awareness, perception and action through multi-disciplinary research and education. Members of the centre have disciplinary expertise in history, art, media and culture studies, languages, heritage studies, sociology, geography, marine science, and other related disciplines.

### *Director*

[Poul Holm](#), CAND.PHIL. (AALBORG), DR.PHIL. (AARHUS), M.R.I.A., MEMBER ACADEMIA EUROPAEA, F.T.C.D. (2010)

## TRINITY CENTRE FOR FORCED MIGRATION STUDIES

Trinity College Dublin became a member of the University of Sanctuary network in February 2021, thereby committing to the following principles: learning about forced migration, refuge and asylum; ensuring a culture of welcome for refugees and asylum seekers; sharing ideas and practices with others; and outreach and advocacy activities.

The Trinity Centre for Forced Migration Studies embodies these principles and ensures their implementation through its research, teaching and civic engagement activities, building on work already carried out by its members in all of these areas. The centre also aligns with the key goals of the Trinity Strategic Plan (2020-2025), entitled 'Community and Connection', which focuses on civic action, intersectional research, inclusion and active citizenship both inside and outside of the College community and in preparing students for life after College. Trinity's values are articulated in the Trinity Strategic Plan as inquisitive, pioneering, responsible, inclusive and collaborative, and these values are championed by the centre.

### *Director*

[Rachel Mary Hoare](#), B.A. (RDG.), PH.D. (W. ENGLAND), P.G.C.H.E. (W. ENGLAND), M.I.A.H.I.P.

## Research Institutes and Centres

### TRINITY FUTURE CITIES: CENTRE FOR SMART AND SUSTAINABLE CITIES

The Future Cities Research Centre undertakes multi-disciplinary research that enables, promotes and facilitates behavioural change for sustainability. The research is supported by the application of sensor, communication and analytical technological solutions to sustainability concerns in urban infrastructure such as energy, water, waste management and transportation systems. Unlike other research centres focussed on distinct elements of a future city such as the energy grid, autonomous transport, or assisted living, the Future Cities Research Centre is taking a holistic view addressing all aspects of the challenge facing growing urban centres and involving researchers from computer science, statistics, information systems, engineering, natural sciences, social science, chemistry, arts, nursing and midwifery, business and law. The availability of a wide range of expertise will facilitate the development of technology advancement and societal change leading to more sustainable and inclusive urban environments. Future cities' innovations will be underpinned by a collaborative co-design approach where multiple stakeholders (for example citizens, service providers, agencies) will be engaged in creating solutions to real-world problems. Using this user-informed design approach avoids the development of solutions that don't address the needs of citizens.

#### *Directors*

[Brian Caulfield](#), B.SC. (MGMT), M.A., M.ECON.SC. (N.U.I.), PH.D., F.T.C.D. (2020)

[Anna Davies](#), B.A. (CANTAB.), M.A., M.SC. (OXF. BROOKES), PH.D. (CANTAB.), M.R.I.A., F.T.C.D. (2007)

### TRINITY CENTRE FOR GENDER AND WOMEN'S STUDIES

The centre's graduate programmes (M.Phil./Diploma, M.Litt. and Ph.D.) address current scholarship on women, gender and sexualities. The centre's dedicated research unit has undertaken nationally and internationally funded projects on such diverse topics as the gender history, work-life balance, gender and ageing, barriers and facilitators toward the promotion of women, the role of men in the promotion of gender equality, prostitution and women and ambition. The centre fosters links with the community through its public seminars and lectures.

#### *Director*

[Catherine Lawless](#), B.A., PH.D.

### TRINITY CENTRE FOR GLOBAL HEALTH (TCGH)

Established in 2004, the Trinity Centre for Global Health (TCGH) is an interdisciplinary centre co-located across the Schools of Medicine and Psychology. The TCGH is comprised of a team of academics, adjuncts, administrators, research fellows, and postgraduate students, all working towards the shared vision of 'generating impactful knowledge through high quality, multidisciplinary research and teaching, while contributing to a world in which the health and well-being of all at all ages is realised'. The TCGH strives to achieve this vision through two overarching goals: (i) to conduct multidisciplinary and collaborative research that improves equitable access to quality health care, including mental health care, for all (TCGH's research goal) and (ii) to provide students with high-quality, multidisciplinary, post-graduate programmes that build their capacity to contribute to the promotion and delivery of equitable health systems in their countries of origin and globally, while supporting every student to impact upon the international programme for sustainable development (TCGH's teaching goal). The TCGH's teaching goal is further achieved via the centre's two flagship postgraduate taught courses: the M.Sc. in Global Health and the M.Sc. in Global Mental Health.

#### *Director*

[Frédérique Vallières](#), B.SC. (MCG.), M.SC., PH.D., P.G.DIP. STATS

### HAMILTON MATHEMATICS INSTITUTE TCD (HMI)

The Hamilton Mathematics Institute TCD (HMI) fosters mathematics by creating an environment in which researchers can meet, collaborate, discuss and explain the frontiers of

## Research Institutes and Centres

fundamental mathematics and related disciplines to each other. It also facilitates interaction between leading researchers and talented young people, appoints researchers working on fundamental aspects of mathematics and theoretical physics who are funded by local and international funding agencies, organises international workshops and conferences, public lectures to communicate the challenge and excitement of fundamental research and engages in dialogue both with other disciplines and society at large.

### *Director*

**Samson Shatashvili**, KANDIDAT NAUK (LENINGRAD), DOKTOR NAUK (LENINGRAD STEKLOV MATHEMATICAL INSTITUTE), M.R.I.A., F.T.C.D. (2005), University Professor of Natural Philosophy (1847)

## TRINITY IMPACT EVALUATION UNIT (TIME)

The Trinity Impact Evaluation Unit (TIME), is a research centre based in the Department of Economics in Trinity's School of Social Sciences and Philosophy. TIME brings together researchers in economics, development practitioners, and policy makers in a collective effort to estimate the impact and understand the underlying mechanisms of development projects, aid, and investments. TIME contributes to the global debate on development. Our vision is to provide strong evidence to inform policy, so that better investments with a real impact on the development process can be made. The central objective of TIME is to produce research of the highest academic standard while, at the same time, facilitating the dissemination of research more widely and providing training to development practitioners on rigorous methods of impact evaluation. The current portfolio of TIME projects spans a wide set of relevant issues, such as financial products and technology, health and nutrition interventions, community engagement and urban pollution, solar lighting and education, organised crime and media bias. TIME has entered a partnership with Irish Aid/Department of Foreign Affairs and Trade (DFAT) which will help establish Ireland as a key player in international development research in Europe. The partnership with Irish Aid/DFAT provides support for an annual workshop in development economics and a summer school on impact evaluation which focuses on developing the skills required to conduct, evaluate and manage programmes on impact evaluation. The workshop which attracts leading development economists from across the globe, examines issues such as climate change, conflict and migration.

### *Director*

**Michael King**, B.A., M.P.A./I.D. (HARV.), PH.D.

## TRINITY CENTRE FOR THE STUDY OF IMMUNOLOGY (TCI)

The area of immunology is one of the fastest-growing disciplines in biomedical research and is a key component of the biotechnology industry. The aims of the TCI are to promote the development of immunology in College; to foster links between immunologists within College; to provide a focus for the raising of funds; and to co-ordinate present and future teaching in immunology. This initiative builds on what is already a strong aspect of research in College, the aim being to build on Trinity's reputation as one of international renown for research in the field of immunology.

### *Director*

**Kingston Henry Gordon Mills**, M.A., PH.D., F.R.A.M.I., M.I.BIOL.I., M.R.I.A., F.T.C.D. (2004)

## CENTRE FOR INNOVATIVE HUMAN SYSTEMS

The mission of the centre is to foster innovative design and organisational change to improve performance and reduce risk in critical systems – in a variety of domains, including transport, manufacturing, resources, health and other services. It is multi-disciplinary – spanning individual, group and organisational activity; technologies, information systems and knowledge; operational processes and business processes; system performance. The role of the centre is to foster an effective innovation cycle working with industry and other partners through research, education training, and consultancy.

### *Co-directors*

[Siobhan Corrigan](#), B.SC. (ULSTER), M.SC. (SHEFF.), PH.D.

[Samuel David Cromie](#), B.A., PH.D.

### TRINITY CENTRE FOR INTERNATIONAL HISTORY

The Centre for International History builds upon the legacy of the Centre for War Studies while also considerably broadening its scope of interest. International history draws on the burgeoning insights of historians in the past few decades that history does not stop at the border of the nation-state. International history explores comparative approaches and uncovers transnational flows of commerce, politics, culture, and ideas. Its methods and content can make a particular contribution at a time when there is such apparent need to decolonise and deprovincialise Trinity to make it better able to train global citizens and enhance its inclusivity.

#### *Director*

[Daniel Schaefer Geary](#), B.A. (VIRGINIA), M.A. (BERKELEY, DUBL.), PH.D. (BERKELEY), F.T.C.D. (2017)

### TRINITY IRISH ART RESEARCH CENTRE (TRIARC)

This centre was established to promote and facilitate the study of Irish art and architecture, and began operations in October 2003. Located in the renovated Provost's House Stables, it serves as a focus for academic research and is responsible for organising seminars, conferences and postgraduate courses, including a taught M.Phil. specialising in Irish art history. It also has responsibility for a visual archive. By exploiting the exceptional resources available in the centre of Dublin, both in Trinity College and in the major cultural institutions nearby, the centre builds on the Department of the History of Art's existing achievements in the field of Irish art.

#### *Director*

[Rachel Moss](#), B.A., PH.D., F.T.C.D. (2022)

### TRINITY CENTRE FOR JUSTICE AND VALUES

The main aim of the centre is to conduct and promote research in the area of value theory broadly defined, and more specifically on normative questions of justice, rights and fairness by bringing together researchers from different disciplines in College as well as outside it. Research will be concentrated around a few main themes: justice, equality, human rights, responsibility, gender, and health. The centre also seeks to engage with the public and practitioners in the area of social justice with a view to promoting fairness in society.

#### *Director*

[Adina Preda](#), B.A. (BUCHAREST), M.A. (MANC., STRAS.), PH.D. (MANC.)

### TRINITY CENTRE FOR LITERARY AND CULTURAL TRANSLATION

The centre was established in 2013 to develop, promote and support literary translation in Ireland. It is a partnership between the School of Languages, Literatures and Cultural Studies and Literature Ireland. This initiative was the result of Trinity College's commitment through the Creative Arts, Technologies and Culture Initiative to create a dynamic network of interconnectivity in education, research, creative practice and entrepreneurship at the heart of the city. Today, the centre is Ireland's reference point for all literal and cultural translation-related research and outreach. It welcomes scholars, students, practitioners, embassies and cultural outreach centres, as well as interested members of the public from around the world to a wide range of activities throughout the year, all centering on translation, broadly conceived.

#### *Director*

[James Hadley](#), B.A. (OXF. BROOKES), M.A. (DUBL., LOND.), M.SC. (EDIN.), PH.D. (E. ANGLIA)

## Research Institutes and Centres

### TRINITY RESEARCH CENTRE IN LOW CARBON TECHNOLOGIES

The centre is a knowledge centre that sees the global carbon neutrality, energy security and affordability challenge as a complex, trans-disciplinary and multi-faceted permanent subject matter in its own right. This follows European Union recognition of the 'low carbon technologies' concept by the 'Fit for 55' legislative package, which refers to the European Union's target of reducing net greenhouse gas emissions by at least 55 per cent by 2030.

The mission of the Trinity Research Centre in Low Carbon Technologies is to provide new knowledge, key to the affordable urgent deployment of massively scalable technologies to decarbonise society. The centre carries out multi- and inter-disciplinary coupled research on science, technology, behavioural change and social innovation concepts that can affordably reduce greenhouse gas emissions, without creating significant other negative consequences.

At inception, the centre addresses decarbonisation organised under four themes: sustainable aviation; low carbon power and propulsion; carbon dioxide capture and utilisation; and clean and available water.

#### *Director*

**Stephen Dooley**, B.Sc. (N.U.I.), PH.D. (N.U.I.)

### TRINITY CENTRE FOR MATERNITY CARE RESEARCH (TCMCR)

The centre is dedicated to achieving excellence in original and sustainable childbirth, reproduction and maternity care research. The centre prioritises research collaboration with women and families, clinical partners in our linked maternity hospitals, national and international colleagues, and industry, to identify research questions of local, national and global significance. The main aim of the centre is to achieve enhanced quality of life and improved outcomes for women, their babies, partners and families through all stages of the reproductive cycle, in diverse social settings.

#### *Director*

**Deirdre Daly**, R.G.N., R.M., B.Sc. (ULSTER), M.A., M.Sc. (BELF., N.U.I.), PH.D., DIP. MID. (NORTHERN IRELAND COLLEGE OF MIDWIFERY), ADV. DIP. ED. (ULSTER)

### TRINITY CENTRE FOR MEDIEVAL AND RENAISSANCE STUDIES

The centre promotes interdisciplinary collaboration between scholars working in the fields of Medieval and Renaissance studies both within and outside Trinity, with a view to raising the profile of Medieval and Renaissance studies at a national and an international level. The centre organises conferences, seminars and public lectures on a regular basis, and also runs a number of international research networks: early modern gardens; Chaucer in context; Byzantine studies; early modern women in Europe; Irish conflict archaeology; and the arts and politics of virtue in Medieval and early modern Europe. It has a refereed publication series, 'Court cultures of the Middle Ages and Renaissance' (published by Peter Lang). It has developed close ties with a number of other institutions, works closely with the Chaucer Hub, the Society for Renaissance Studies and Medium Aevum and is a member of CARMEN (the Confederation for the Advancement of Research through a Medieval European Network).

Website: [www.tcd.ie/Medieval\\_Renaissance](http://www.tcd.ie/Medieval_Renaissance).

#### *Director*

**Sarah Elizabeth Alyn Stacey**, CHEV. DE L'ORDRE NATIONAL DU MÉRITE, B.A. (HULL), M.A., PH.D. (HULL), MEMBRE DE L'ACADÉMIE DE SAVOIE, F.T.C.D. (2004)

### TRINITY MEDIEVAL HISTORY RESEARCH CENTRE

The centre is designed to promote research in the history and archaeology of Ireland and Europe in the Middle Ages. It provides facilities for the interaction and exchange of ideas among postgraduate students, postdoctoral researchers and staff (from inside and outside College), while also furnishing a forum where relevant research from other disciplines can be aired and

## Research Institutes and Centres

discussed from a historical viewpoint. In addition to hosting externally-funded projects, the centre also offers a taught M.Phil. in Medieval Studies.

*Director of the centre and Co-ordinator of the M.Phil. in Medieval Studies*

[David Ditchburn](#), M.A. (EDIN.), PH.D. (EDIN.)

### TRINITY CENTRE FOR MEDITERRANEAN AND NEAR EASTERN STUDIES (MNES)

The aim of the centre is to investigate how, at local, national and international level, peoples, ideas, and practices in these two highly important cultural zones have lived together in peaceful and hostile relationships; and how the multiple identities thus negotiated and given expression have led to either conflict or accommodation. Combining literary, historical, philosophical, archaeological and scientific methodologies, the core of the centre's research activities brings together scholars, both local and international, from classics and archaeology, biblical, New Testament and Jewish studies, philosophy and history. The Plato Centre is a constituent member of MNES.

*Director*

[Brian Charles McGing](#), B.A., M.A. (DUBL., TOR.), PH.D. (TOR.), M.R.I.A., Fellow *emeritus*

### TRINITY CENTRE FOR NATURAL PRODUCTS RESEARCH (NatPro)

The Trinity Centre for Natural Products Research (NatPro) enables discovery and sustainable development of natural products with applications across sectors. The centre provides a research platform for interdisciplinary global collaborations, linking academia and industry to progress products from discovery towards the market in the areas of pharmaceuticals, food supplements and functional foods, cosmetics and agrochemicals to support human health and agricultural productivity in order to deliver innovative solutions and economic growth.

*Director*

[vacant]

*Associate Directors*

[Fabio Boylan](#), B.SC. (U.F.R.J.), M.A., M.SC. (U.F.R.J.), PH.D. (U.F.R.J.)

[John Jarlath Walsh](#), B.A., PH.D.

*Executive Director*

[Gaia Scalabrino](#), B.SC., PH.D.

### TRINITY CENTRE FOR NEW IRISH STUDIES

The centre (formerly the Trinity Centre for Irish-Scottish and Comparative Studies) hosts the Making Ireland College research theme and coordinates a number of research projects and initiatives that have been developed under the auspices of the theme, notably the Beyond 2022 project.

*Director*

[Mark Eugene Hennessy](#), B.A. (N.U.I.), M.A., PH.D. (N.U.I.)

### TRINITY CENTRE FOR PEOPLE WITH INTELLECTUAL DISABILITIES (TCPID)

The Trinity Centre for People with Intellectual Disabilities is one of Trinity College Dublin's most innovative initiatives. Formerly known as the National Institute for Intellectual Disability, this Trinity centre promotes the rights of people with intellectual disabilities with its mission of inclusion through education, research and pathways. Since its inception in 2004, it has aimed to create a paradigm shift in opportunity, policy and service provision with the objective to enable people with intellectual disabilities to be empowered and become active participants in Irish society. This work is aligned within the overarching framework of the 2006 United Nations Convention on the Rights of Persons with Disabilities. From an educational perspective, the two-year programme, entitled the 'Certificate in Arts, Science and Inclusive Applied Practice' provides adults with an intellectual disability an opportunity to experience tertiary level education and the

## Research Institutes and Centres

richness of life as a college student. Following ten productive years as part of the School of Social Work and Social Policy, Trinity Centre for People with Intellectual Disabilities moved to the School of Education in October 2014, where it has been fully integrated into the core teaching and learning activities and research programme of the 'Inclusion in Education and Society' research group.

*Director (under the remit of the Inclusion in Education and Society research group)*

**Michael Gerald Shevlin**, B.A. (N.U.I.), M.A., PH.D., H.DIP.ED. (N.U.I.), F.T.C.D. (2008)

### THE TRINITY PLATO CENTRE

The centre is designed to co-ordinate and direct activities in the field of Platonic philosophy in the Greater Dublin area (including Maynooth), to supervise graduate students, and to organise seminars, colloquia and reading groups. In co-operation with University College Dublin and Maynooth University it will offer an M.Litt. and Ph.D. in Neoplatonic Studies.

### TRINITY CENTRE FOR POST-CONFLICT JUSTICE

The centre fosters interdisciplinary research that explores how societies come to terms with episodes of extreme violence in war, civil war, and periods of prolonged civil and political unrest. The centre brings together faculty and graduate students working in the fields of history, law, peace studies, sociology, theology and ethics. Its current projects address the themes of justice, transition, and memory and reconciliation and draw from field and archival work in the Balkans, Eastern and Central Europe, Central America, Africa, the Middle East, and Southeast Asia, as well as the experience of the peace process in Ireland, north and south.

*Director*

**Jude Lal Fernando**, B.PH. (ROME), B.TH. (ROME), M.PHIL. (ECUM.), PH.D.

### TRINITY CENTRE FOR PRACTICE AND HEALTHCARE INNOVATION

This centre works collaboratively with healthcare staff, industry and the public to improve healthcare services and to develop, implement and evaluate new innovative healthcare interventions and models of care. This centre aims to foster nursing research and has developed successful collaborative research partnerships with Naas General Hospital, St James's Hospital, St Patrick's Mental Health Services, Tallaght University Hospital, and HSE Community Healthcare Dublin South, Kildare and West Wicklow. It also collaborates with a large network of clinical, industry and research partners and is actively engaged in the synthesis and translation of evidence in every day healthcare. It is a resource for those seeking evaluation of healthcare policy, quality improvement and innovation in healthcare service development and delivery. Please see website for more details: [www.tcd.ie/tcphi](http://www.tcd.ie/tcphi).

*Director*

**Anne-Marie Brady**, R.G.N., R.N.T., B.S.N. (NORTHEASTERN), M.A., M.S.N. (NORTHEASTERN), PH.D., P.G.DIP. C.H.S.E., F.T.C.D. (2019)

### TRINITY CENTRE FOR PSYCHOLOGICAL HEALTH

The centre brings together a critical service-focused research capacity to develop, implement and evaluate psychological interventions to enhance health and well-being. The centre fosters research-led innovation to help services optimise client quality of life and advance the science of clinical practice. Through external collaborations and with innovative models of working with service users, the centre is uniquely positioned to meaningfully engage with society in addressing core issues related to enhancing well-being.

*Director*

**David Hevey**, B.A. (N.U.I.), M.A. (N.U.I.), PH.D., F.T.C.D. (2022)

### TRINITY RESEARCH IN CHILDHOOD CENTRE (TRICC)

The centre's mission is to promote Trinity as a centre of excellence in childhood research through integrating and promoting the study of children's biological, psychological, cognitive, and socio-emotional development and well-being, across College. The centre builds on the work of the former Children's Research Centre (CRC), and the Trinity Children's Research Forum, in establishing a wide network of researchers with the aim of creating new synergies and opportunities for collaboration and transdisciplinary research, methodological innovation, and sharing of good practice across projects and approaches.

#### *Director*

**Imelda Coyne**, R.G.N., R.S.C.N., R.N.T., B.SC. (ROYAL COLLEGE OF NURSING), M.A., PH.D. (LOND.), DIP. N. (ROYAL COLLEGE OF NURSING), F.T.C.D. (2017)

#### *Co-directors*

**Eleanor Molloy**, M.B. (N.U.I.), PH.D. (N.U.I.), F.R.C.P.C.H. (LOND.), F.R.C.P.I., F.T.C.D. (2015)

**Lorraine Swords**, B.A. (N.U.I.), M.A., M.PSYCH.SC. (N.U.I.), PH.D. (N.U.I.)

### TRINITY CENTRE FOR RESEARCH IN I.T. IN EDUCATION (CRITE)

The centre is a collaboration between the School of Education and the School of Computer Science and Statistics. Its research agenda is to explore how technology can be used to enhance teaching and learning, and includes strands on computing education, technology mediated learning and developing digital competence. It approaches this largely through the lenses of constructionism and social constructivism. A pragmatic research approach is typically followed and a guiding principle is that the field needs to move beyond boutique interventions and tackle core issues arising in the transformation of learning in a systemic and sustainable fashion. Through its partnership with the Trinity Access Programmes the centre has a particular focus on working with schools in areas of socio-economic disadvantage.

#### *Academic Co-directors*

**Keith Johnston**, B.TECH. (ED.) (LIMERICK), M.A. (DUBL., LIMERICK), PH.D. (LIMERICK)

**Nina Bresnihan**, B.A. (N.U.I.), M.A. (N.U.I.), M.SC., PH.D.

### TRINITY CENTRE FOR RESISTANCE STUDIES

The Trinity Centre for Resistance Studies is an interdisciplinary research centre dedicated to the study of resistance in all its forms, including opposition, dissent, resilience, protest and non-conformism. The centre brings together academics from the disciplines of history, cultural studies, languages and literatures, the social sciences, law, peace studies and the health sciences. Its geographical scope stretches from Hong Kong to South America, through Europe (East and West), Ireland (North and South), the Near and Middle East and the United States.

#### *Director*

**Balázs Apor**, B.A. (DEBRECEN), PH.D. (EUROPEAN UNIV. INST. (FLORENCE))

### TRINITY CENTRE FOR SOCIAL INNOVATION

The Trinity Centre for Social Innovation, which was formerly the Trinity Centre for Nonprofit Management, has as its mission to create a TCD space that fosters research on social entrepreneurial action, generating opportunities to study impactful engagement in society and to disseminate that research to all stakeholders. The centre will create opportunities for individuals and teams across College and beyond to work together towards generating greater impactful research-led engagement in all aspects of their work and research. Taking the three core pillars of research, teaching, and incubation, the Trinity Centre for Social Innovation will seek out, facilitate, support and promote the impactful engagement interactions that occur and actively endeavour, through the centre's overall research agenda, to investigate the diversity, complexity and scale of impact created.

## Research Institutes and Centres

### Director

[Gemma Donnelly-Cox](#), B.A. (WAT.), M.PHIL. (OXON.), D.PHIL. (OXON.)

### TRINITY CENTRE FOR TRANSPORT RESEARCH AND INNOVATION FOR PEOPLE (TRIP)

The aim of TRIP is to initiate and develop interdisciplinary research in transport focusing on a set of theme areas; balancing transportation supply and demand/need, the use of information and communication technologies (ICT) in transportation, environmental impacts of transportation, safety and quality of life.

### Director

[Margaret Mary O'Mahony](#), B.E. (N.U.I.), M.A., D.PHIL. (OXON.), C.ENG., FIEI, F.T.C.D. (2001)

### TRINITYHAUS RESEARCH CENTRE

TrinityHaus explores all aspects of the built environment and aims to provide innovative solutions for buildings, neighbourhoods and cities. It brings together a diverse range of principal investigators with professional and academic expertise in engineering and architecture, and environmental, social and health sciences. Current projects address the design of sustainable and inclusive buildings and places, environmental protection, and climate change mitigation and adaptation, including renewable energy solutions.

### Director

[John Gallagher](#), B.E. (BELF.), M.SC., PH.D., P.G.DIP. STATS, F.T.C.D. (2024)

### TRINITY OSCAR WILDE CENTRE FOR IRISH WRITING

The centre was opened in January 1998 as the teaching and research centre for the M.Phil. in Creative Writing. Devoted to writing and research, the centre's main focus is on providing an academic yet lively environment for students of the M.Phil. graduate course. As an interface between College and community, the centre plays a key role in bringing the achievement and ambition of writers to the attention of a wider public both at home and abroad.

### Director of the centre and Director of the M.Phil. in Creative Writing

[Eoin McNamee](#), B.A., F.T.C.D. (2024)

## Other Research Entities

### AL MAKTOUM CENTRE FOR MIDDLE EASTERN STUDIES

The Al Maktoum Centre for Middle Eastern Studies in Trinity College is an interdisciplinary, outward facing centre providing a hub for colleagues across the university, the wider academic community in Ireland, and an international community of scholars dedicated to research in the area of the Middle East from antiquity to the present. The centre aims to establish national and international networks, offering workshops and research seminars through international webinars. It seeks to engage the public and the wider community in an effort to promote the academic study of the Middle East leading to a greater appreciation of its cultures, regions and peoples.

### Director

[Anne FitzPatrick](#), B.A., PH.D.

### IRISH CENTRE FOR EUROPEAN LAW

The centre seeks to promote the knowledge, understanding and good practice of EU law and the law of the European Convention on Human Rights. To this end, the centre organises conferences, seminars and refresher courses on substantive areas of Union and Convention law as well as on the Union's institutional framework and on the interrelationship between the Union legal order and that of its Member States.

### *Chair*

The Hon. Mr John D. Cooke, Retired Judge of the High Court

### *Director*

Stephen Brittain, Barrister-at-Law

### TRINITY CENTRE FOR GLOBAL INTERCULTURAL COMMUNICATIONS (CGIC)

The Trinity Centre for Global Intercultural Communications is the first Irish hub for intercultural competences. It offers a range of intercultural training to help participants effectively engage across differences and thrive in a multicultural context. The mission of the centre is to engage key stakeholders in education and industry to support: lifelong learning; intercultural competence; global engagement; employability; economic growth; equity, diversity and inclusion. Intercultural competences are the transversal skills required to master communication and to successfully, ethically and creatively collaborate with international colleagues, partners and institutions. Intercultural intelligence builds confidence and adaptability in multicultural encounters and contexts. This is increasingly vital for collaboration and growth across all sectors. Courses draw upon evidence based insights from the European Commission's training and development framework, the European skills agenda and Ireland's strategy for foreign languages. These sources indicate that in order to capture global markets, strengthen sustainable competitiveness and facilitate inclusion in the recovery of European economies we need to understand cultural differences, communicate across cultures and languages, and empower people to continuously upskill and reskill.

### *Director*

[Omar Garcia](#), B.S. (MIAMI), B.A. (MIAMI), M.A. (MIAMI), M.S.ED. (MIAMI), PH.D. (LOND., MIAMI), F.T.C.D. (2021)

### *Deputy Director*

[Théophile Munyangayo](#), B.A. (RWANDA), M.A. (RWANDA), PH.D. (NOTT.), P.G.C.E. (HUDD.), F.C.I.L.

## Inter Faculty Groupings

### COMPARATIVE MEDICINE UNIT

#### *Director*

[vacant]

#### *Designated Veterinarian*

[Kimberly Jardine](#), B.V.SC. (PRET.), B.SC. (S.AF.), P.G.DIP. HEALTH SCIENCES EDUCATION (WITW.)

#### *Research Support Officer/Administrative Officer*

[Laavanya Parthasarathi](#), B.SC. (B'THIDASAN.), M.A., M.SC. (B'THIDASAN.), PH.D. (B'THIDASAN.)

#### *Chief Technical Officer, Grade II*

[Manuela Mitsogiannis](#), B.SC. (BOLOGNA), M.SC. (UTRECHT), PH.D.

#### *Experimental Officer*

[Rustam Rakhmatullin](#), B.SC. (BASHKIR STATE UNIV.), M.A., M.SC. (BASHKIR STATE UNIV.)

#### *Senior Technical Officer*

[Ciaran Gavagan](#), M.A.

#### *Technical Officers*

[Aoife Gavagan](#), M.A.

[Charles Murray](#)

[Mark Travers](#)