

#BelieveInScience



Science Foundation Ireland St. Patrick's Day Science Medal 2023

Science Foundation Ireland (SFI) is the national foundation for investment in research in the areas of science, technology, engineering, and mathematics (STEM), which assists in the development and competitiveness of industry, enterprise and employment in Ireland. It also promotes and supports STEM education and engagement to improve awareness and understanding of the value of STEM to society and to support the STEM careers pipeline.



About the Medal

The Science Foundation Ireland St. Patrick's Day Science Medal is awarded annually by An Taoiseach (Ireland's Prime Minister) to a distinguished Irish scientist, engineer or technology leader living and working in the USA.

The medal recognizes those who are not only outstanding in their fields of expertise, but who also have demonstrably assisted researchers in Ireland in either academia or industry – via mentorship, supervision, collaboration, industrial development, entrepreneurship or who have made significant contributions to developing the research ecosystem in Ireland.

Nomination Process

Nominations for the 2023 competition are now open for two categories of entrant; industry-based and academia-based individuals.

The deadline for nomination is 5pm (Dublin local time) on **Friday, 4th November 2022**.

Nominations and queries can be submitted to:

sciencemedal@sfi.ie

For more information and submission forms, visit: www.sfi.ie/funding/funding-calls/sfi-st-patricks-day-science/

Medal Recipients

2022 - ACADEMIC MEDAL

Professor Donald P. McDonnell



Limerick native, Professor Donald P. McDonnell is one of the world's leading experts in the treatment of cancers, such as breast and prostate cancer, that respond to hormones. His work has led to the discovery of several drugs that are currently being evaluated in the

clinic, and to the identification of potential markers to personalise and target treatment. He obtained a degree in Biochemistry from the National University of Ireland, Galway in 1983, before moving to Baylor College of Medicine, in Houston, Texas, where in 1987 he obtained his PhD. He spent time in industry before moving to Duke University, North Carolina. Prof McDonnell is the Glaxo-Wellcome Distinguished Professor of Molecular Cancer Biology, in the School of Medicine and he is the Associate Director for Basic Research for the Duke Cancer Institute.

2022 - INDUSTRY MEDAL

Mr John Collison and Mr Patrick Collison



John and Patrick Collison are two of Ireland's most distinguished entrepreneurs, having founded financial infrastructure

platform, Stripe, in 2010. The Collison brothers are also working to change higher education. Partnering with the University of Limerick, they created the new BSc/MSc graduate programme in Immersive Software Engineering (ISE), a new four-year master's degree in software engineering featuring five paid placements, a new style of learning and an in-built research and development platform.



2021 - ACADEMIC MEDAL
Professor William C. Campbell

Professor William C. Campbell is a Nobel Prize winning Irish biologist and parasitologist. He was educated in Ireland, spent most of his working life in the U.S. and his pioneering scientific research

has helped to transform the lives of millions of people worldwide who suffered from river blindness. Professor Campbell, who grew up in Ramelton, Co. Donegal, developed his interest in parasitology while studying at Trinity College Dublin graduating in 1952 with first class honours in Zoology before moving to the US.



2021 - INDUSTRY MEDAL
Vincent Roche, President and CEO of Analog Devices Inc.

Since becoming ADI's president in 2012 and CEO in 2013, Mr. Roche has initiated and led a transformation in ADI's business

approach, moving the company 'up the stack' from electronic chip components to system-based products. Mr. Roche grew up in Wexford and earned a Bachelor's degree in Electrical Engineering from the then NIHE Limerick in 1982. He joined Analog Devices in the early 1990s and in 2017 received an Honorary Doctorate from University of Limerick.



2020 - ACADEMIC MEDAL
Prof Neville Hogan,
Sun Jae Professor of Mechanical Engineering, Massachusetts Institute of Technology

Born in Dublin, Ireland, Prof Neville Hogan graduated from Dublin Institute of Technology

(now TU Dublin) in 1970, before going on to receive a degree and an MSc in Mechanical Engineering, and then a PhD in Mechanical Engineering, all from Massachusetts Institute of Technology. As a professor in MIT's Department of Mechanical Engineering and Department of Brain and Cognitive Sciences, Prof Hogan is one of the few faculty members at MIT to have appointments both in the School of Engineering and School of Science, and is regarded as the father of rehabilitation robotics.



2020 - INDUSTRY MEDAL
Dr Ann B Kelleher,
Head of Technology Development, Intel Corporation

Dr Ann B Kelleher, Senior Vice President and General Manager at Intel, has had an outstanding

scientific and technical career. Originally from Macroom, Co. Cork, she achieved First Class honours in Engineering in 1987 and a MEng in 1989 from University College Cork. In 1993, Dr Kelleher became the first female to receive a PhD from the National Microelectronics Research Centre (NMRC), the forerunner of Tyndall National Institute. She was the first Irish woman in the history of Intel to be named as a Vice President, and she maintains strong links to Ireland, making significant contributions across several areas.



2019 - ACADEMIC MEDAL
Prof Eamonn Quigley,
Houston Methodist Hospital

Prof Eamonn Quigley, a native of West Cork, is a leading international expert in the field of gastroenterology. His career has spanned over thirty years, working on both sides of the Atlantic. A graduate of University College Cork (UCC), and following clinical training in Glasgow, he spent two years as a Research Fellow at the Mayo Clinic in Minnesota. In 1986, he joined the University of Nebraska Medical Center in Omaha, where he was Chief of Gastroenterology and Hepatology. Prof Quigley returned to Cork in 1998, where he served as Dean of the Medical School at UCC for seven years and was a Principal Investigator at the APC Microbiome SFI Research Centre from its inception. He took up his current post in Houston in 2013 where he holds the David M Underwood Chair of Medicine in Digestive Disorders.



2019 - INDUSTRY MEDAL
Mr Mike Mahoney,
CEO Boston Scientific

Mr Michael Mahoney has nearly thirty years' experience working with medical devices organisations. Prior to joining Boston Scientific in 2011, he served as Worldwide Chairman of the Medical Device and Diagnostics Group (MD&D) at Johnson & Johnson. US-born, Mr Mahoney has always felt strongly connected to his Irish heritage, with family linking back to Cork and Mayo. Boston Scientific has a long-standing relationship with Ireland, since establishing there in 1994 with the support of IDA Ireland and is now one of the country's largest employers with 5,000 employees at its sites in Clonmel, Cork and Galway. The company produces devices that help treat more than 30 million patients worldwide annually, including treatments for disorders of the heart and circulatory systems, chronic pain, Parkinson's Disease, gastrointestinal and urological conditions. The Irish manufacturing operation is an integral part of the corporation's manufacturing strategy and capability.



2018 - ACADEMIC MEDAL
Prof Margaret Murnane,
University of Colorado

Limerick native Prof Margaret Murnane is a visionary in her field of laser science and one of the most acclaimed research-active physicists in the US. Elected to the U.S. National Academy of Sciences, her many achievements have enabled major advances by allowing researchers to image particles in fields from physics and chemistry, to biology, medicine and technology. In 2017 Prof Murnane was awarded the Optical Society of America's Frederic Ives Medal/Quinn prize, which recognizes overall distinction in optics and is the highest award given by the OSA. Prof Murnane continues to play a significant role in research and the promotion of science in Ireland, in her keen and ongoing support of the Tyndall National Institute in Cork.



2018 - INDUSTRY MEDAL
David McCourt,
Founder and CEO of Granahan
McCourt Capital

Founder and CEO of Granahan McCourt Capital, David McCourt holds Irish citizenship and has a home in County Clare. He has been incredibly active in Ireland's academic ecosystem in terms of funding, employment, innovation and as part of the Irish Government's Global Economic Forum. In Ireland, Granahan McCourt has expanded access to broadband through its part-owned company, enet, which operates next-generation, open-access telecoms infrastructure. David is also pioneering technology to develop 'Broadband in a Box' which aims to bring internet connectivity to the most under-served technology areas in the world. Through substantial partnerships with his companies he has provided considerable support to the SFI Research Centre CONNECT. In 1984 David was the first-ever recipient of the White House award recognising extraordinary accomplishments by private sector businesses.



2017 - ACADEMIC MEDAL
Prof Adrian Raftery,
University of Washington

Born in Dublin, Prof Adrian Raftery has been a leader in developing new Bayesian statistical methods for model selection and model averaging, as well as model-based clustering. He has

worked on studies which have fundamentally changed our understanding of whaling populations, the prevalence of HIV/Aids, and weather forecasting. He is Professor of Statistics and Sociology and a faculty affiliate of the Centre for Statistics and the Social Sciences, and the Centre for Studies in Demography and Ecology at the University of Washington. An elected member of the U.S. National Academy of Sciences, he was identified as the world's most cited researcher in mathematics for the decade 1995-2005 by Thomson-ISI.



2017 - INDUSTRY MEDAL
Dr T. Pearse Lyons,
Founder and President of Alltech

Dundalk-born biochemist and entrepreneur, Dr. T. Pearse Lyons, was the first Irish scientist to create a global business based on scientific research. A graduate of

University College Dublin with ambitions to create the next 'green revolution' to improve the health and performance of people, animals and plants, Dr. Lyons founded Alltech in 1980. Today with annual sales of \$3 billion, trading in 128 countries worldwide and more than 6,000 employees, Alltech remains committed to innovation and development. The company's European headquarters are in Dunboyne, Co. Meath, and the main base is in Kentucky, where Dr. Lyons established himself as a leader within the business community. In recent years, Dr. Lyons had also set up a distillery in his name in the Liberties area of Dublin.



2016 - ACADEMIC MEDAL
Prof Séamus Davis,
Cornell University

Prof Séamus Davis has been at the forefront of modern physics for more than 30 years, where he has made wide-ranging contributions to the physics of quantum materials.

Professor Davis is the JG White Distinguished Professor of Physics at Cornell University, the SUPA Distinguished Professor of Physics at St. Andrews University, and a Senior Physicist at the U.S. Department of Energy's Brookhaven National Laboratory. A winner of the National Science Foundation Young Investigator award in his early days, he has become a Fellow of the Institute of Physics and of the American Physical Society. In 2010, he was one of the youngest physicists ever elected to the U.S. National Academy of Sciences. He has extensive personal and research links with Ireland, having graduated from University College Cork where he remains a frequent visitor and speaker.



2016 - INDUSTRY MEDAL
Dr Craig Barrett,
former CEO of Intel

Dr. Craig Barrett is a leading advocate for improving education in the U.S. and around the world, and a vocal spokesman for the value technology can provide in raising

social and economic standards globally. Having held the positions of Chairman, CEO and President of Intel Corporation, Dr. Barrett has played a pivotal role in the establishment of Intel's European manufacturing base in Leixlip, Co. Kildare, and in promotion of Ireland, globally, as a hightech centre. Chairman of the Irish Technology Leadership Group from 2005 to 2009, Craig was presented with the Irish Presidential Distinguished Service Award for the Irish Broad in 2013. He has served as a member of the Hong Kong Chief Executive's Council of International Advisers, the board of trustees of the Society for Science & the Public, and the Board of Directors for the National Forest Foundation, the non-profit partner to the U.S. Forest Service.



2015

**Prof Katherine Fitzgerald,
University of Massachusetts**

Prof Fitzgerald's research into infectious diseases and how the innate immune system protects humans from microbial challenges has been published in leading scientific journals including Nature, Science, and Cell, accruing over 16,000 citations. Having studied at University College Cork and Trinity College Dublin, Prof Fitzgerald is the recipient of the Irish Society of Immunology Public Lecture Award and the Irish Royal Academy of Medicine Donegan Medal. She is Professor of Medicine and co-Director of the Program in Innate Immunity at the University of Massachusetts Medical School. Her work at the university has helped to define inflammatory activators that lead to diseases such as gout, asbestosis, and potentially Alzheimer's disease.



2014

**Dr Garret FitzGerald,
University of Pennsylvania**

Through his research on biomedical cardiovascular pharmacology, Dr. FitzGerald has been awarded both the 2013 Grand Prix Scientifique - considered the world's most prestigious honour for cardiovascular research - and the Irish Times/RDS Boyle Medal. He is recognised for his lifetime contributions to the study of cardiovascular health, and in particular the implications of pain medicines on cardiac systems. He was instrumental in the discoveries relating to the use of low-dose aspirin in preventing cardiac disease. Dr. FitzGerald is the McNeil Professor in Translational Medicine and Therapeutics at the Perelman School of Medicine, University of Pennsylvania, where he also chairs the Department of Pharmacology and directs the Institute for Translational Medicine and Therapeutics. He was elected to the Royal Irish Academy, the highest academic honour in Ireland, in 2016.

Science Foundation Ireland

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