



MSD GRADUATE PROGRAMME



MSD

INVENTING FOR LIFE

Vaccines



Oncology



Diabetes



Biologics



Neurosciences/
Ophthalmology

Cardiovascular



Infectious
Diseases



Women's Health/
Endocrine



Bones/Respiratory/
Immunology/
Dermatology



Diversified
Brands

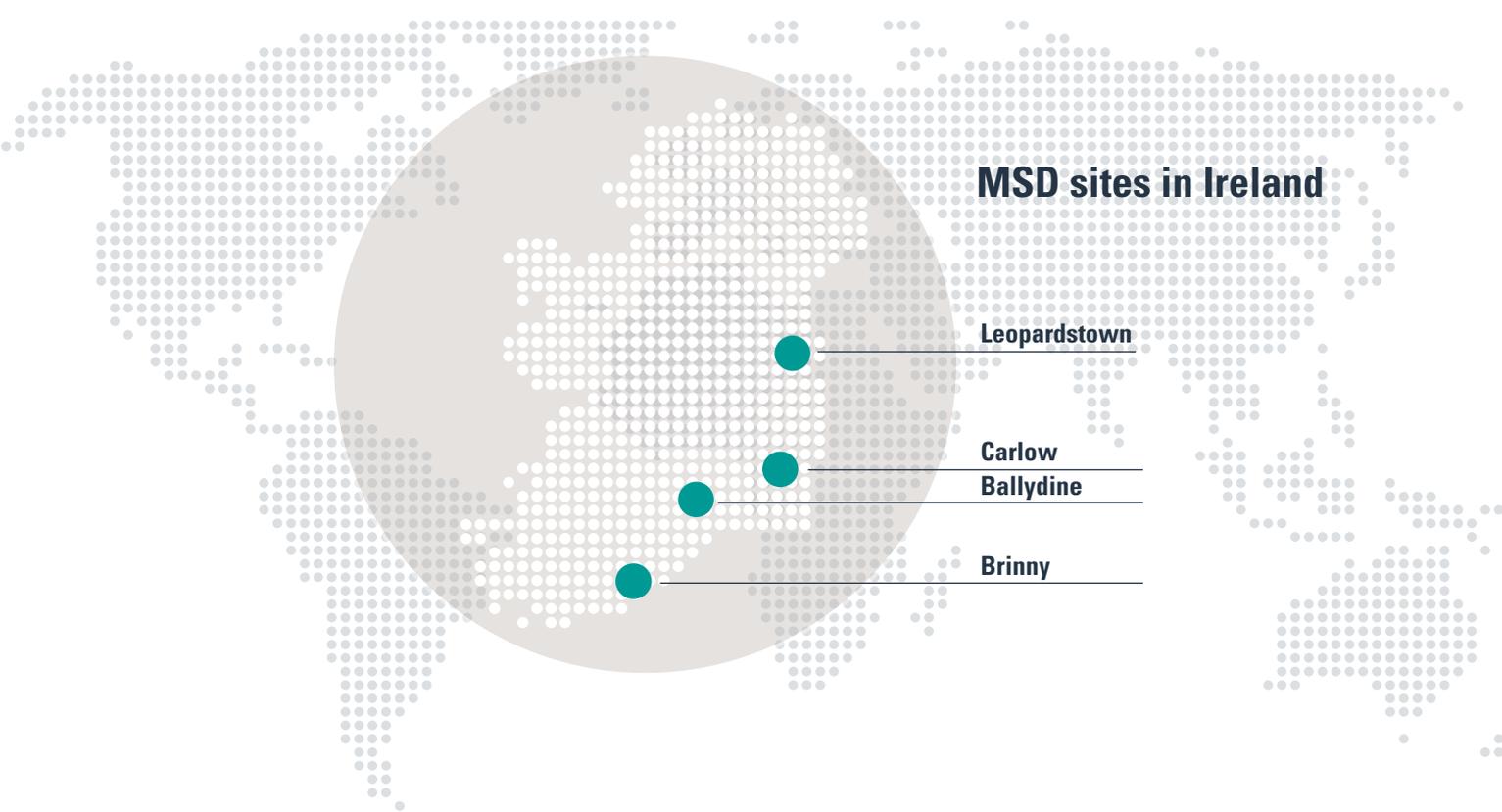
We are MSD

For 125 years, MSD has been a global health care leader that is committed to improving health and well-being around the world. MSD provides healthcare solutions and innovative medicines in areas such as diabetes, heart disease, immuno-oncology, infectious diseases and vaccines. MSD Ireland is one of the country's leading healthcare companies, having first established here over 50 years ago. With many of MSD's leading global products manufactured or produced here, Ireland plays a critical role in MSD's worldwide operations.

We currently employ over 1,600 employees, across four sites in Ballydine, Co Tipperary, Brinny, Co Cork, Carlow and Dublin and, in addition, operate substantial Human Health and Animal Health business and continue to support MSD in Europe, Middle East and Africa through our Global Financial Services Centre in Dublin. To date, we have invested \$2.2 billion in our Irish operations and our annual turnover ranks us as one of Ireland's top 20 companies.

At MSD Ireland we firmly believe that the most important thing we make is a difference – to patients, to our employees, to our communities and to the Irish healthcare landscape generally. MSD Ireland is 100% committed to putting the patient at the heart of everything we do.

MSD, known as Merck & Co., Inc. of Kenilworth, NJ, USA, researches, develops and manufactures prescription medicines, vaccines, biologic therapies and animal health products. We are committed to increasing access to healthcare through far-reaching policies, programmes, and partnerships, in order to help people around the world lead healthier lives.



MSD sites in Ireland

Leopardstown

Carlow
Ballydine

Brinny

MSD: Inventing for Life

At MSD, we have and always will be... Inventing for Life.

These three powerful words reflect our commitment to inventing new medicines and vaccines that save lives by preventing and fighting disease. MSD has dedicated researchers trained in many different scientific disciplines who work tirelessly to find cures for significant diseases that still afflict millions around the world and we will continue on this path.

MSD's Irish employees play an increasingly critical role in driving our position as one of the world's leading healthcare companies.

Our existing portfolio and future pipeline ensures employees in Ireland operate at the cutting edge of science and technology, and we're very proud that the pioneering work undertaken by employees in Dublin, Carlow, Cork and Tipperary helps to improve health and well-being globally.

We're now 1,600 strong and continuing to grow, with opportunities across our diverse businesses for people with ambition and drive to continuously grow, learn and develop.

Many of the most widely used MSD medicines are developed by our teams in Ireland, with over over 50% of MSD's global top 20 products now manufactured here in Ireland. We have invested hugely in the Irish market and our Irish sites are highly regarded, and renowned, by our colleagues across the globe.

We have continuously led the way when it comes to our capability to rapidly introduce new products, and additional volumes of existing products, at minimal additional capital cost - ensuring supply for new product launches and expanding market opportunities across the globe.

MSD: Our Commitment to Ireland

IRISH TURNOVER OF

€4.7 billion

in 2016

€300m



INVESTED

in R&D in Ireland in 2014 & 2015

€280m

**TO BE INVESTED
IN 2017-2019**

in MSD's state of the art
manufacturing facilities in
Carlow and Cork



€2.2bn

invested in Ireland, contributing
significantly towards making
the pharmaceutical industry the
country's leading export sector

€40m

**INVESTED IN
CAPITAL SPEND**

in 2017 in MSD
in Ballydine

€25m



anticipated investment in clinical
trials over the next three years



50%

of MSD's global top 20 products
are manufactured here, helping
make Ireland the largest net
exporter of medicines in the world

ANNUALLY WE SPEND IN EXCESS

€400m

**ON GOODS AND SERVICES
IN IRELAND**

MSD: Be a part of the team that makes a difference

As well as supporting and championing patients' interests, we're also very focused on giving back to the communities that we operate in. We are committed to making a difference through innovative research, ground breaking partnerships and smarter processes, centred on four priority areas: Access to Health, Environmental Sustainability, Employees, and Ethics and Transparency.

We are focused on CSR activities at both national and local level and are very proud of the work we conduct annually. Together with our employees and our community partners, we work to make a difference through an ambitious corporate citizenship programme and locally supported initiatives.

Over the last five years we have consistently been ranked as one of the top five business contributors in Ireland.

1,400 hours

Volunteered by MSD's Irish employees annually



€4.1 million

Invested in support of medical education in Ireland

€5.8 million

Contributed to support a range of community programmes



Over 505

community, charity, and healthcare projects supported by MSD in Ireland



Water: Driving down our water use 25% by 2020



Climate:

Reducing our greenhouse gas emissions 15% by 2020

Air: Site CO₂ emissions reduced over 7,600,000kg since 2011

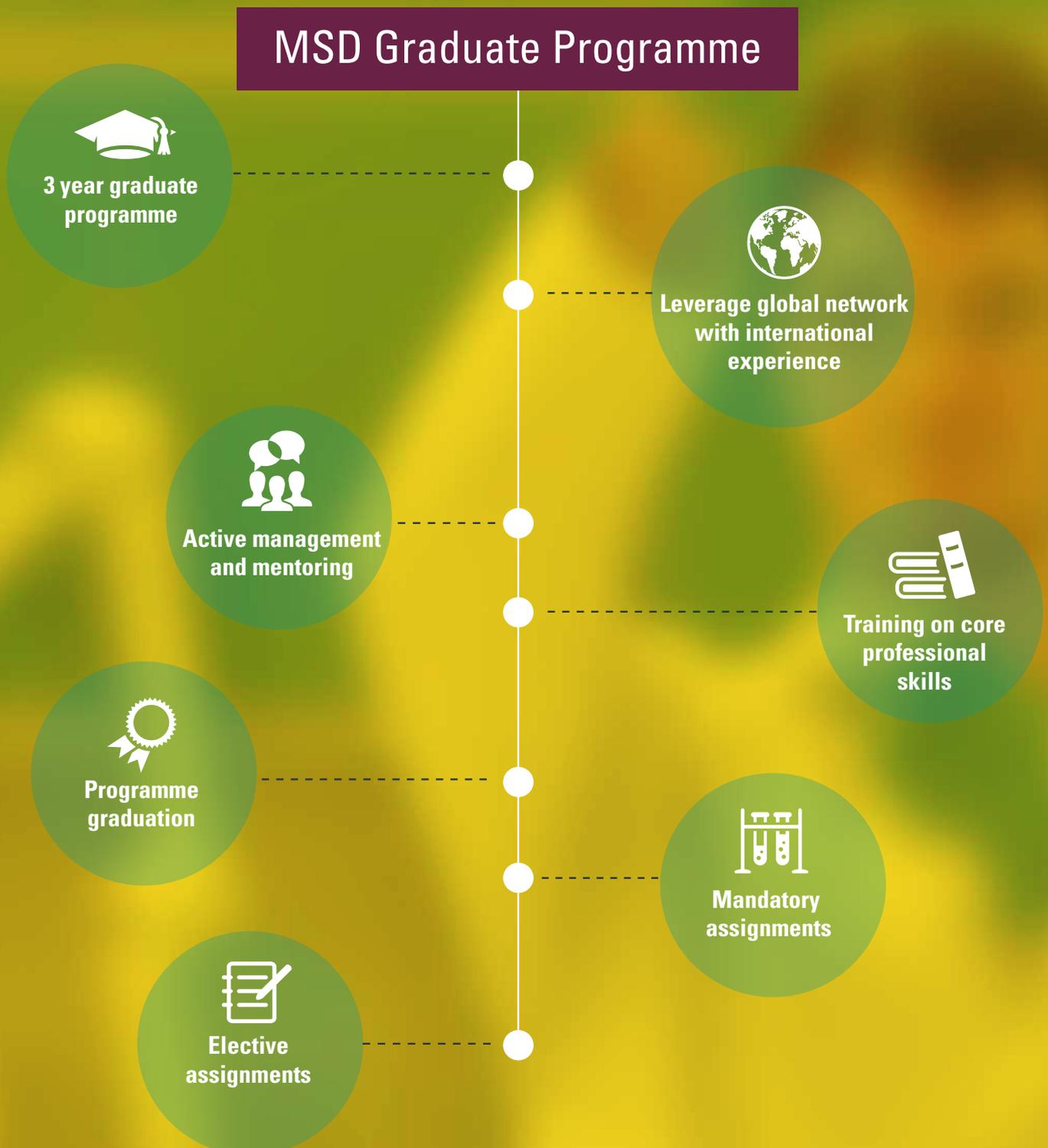
MSD: Be sustainable

The environment and sustainability form part of our corporate objectives under the key areas of air, energy, waste and water.

We invest in technologies and adapt our ways of working in order to reduce, and wherever possible eliminate, any harmful practices. In addition, we have a team of full-time Energy Managers who are committed to reducing carbon emissions associated with the manufacture of our medicines.

MSD: Be part of the best

MSD's graduate programme is a three year on-site work placement programme designed to develop industry-leading professionals.



MSD: What some of our people say



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ART O'CONNOR University College Dublin

Chemical and Bioprocess Engineering Graduate – MMLDP

The MMLDP (MSD Manufacturing Leadership Development Program) is a 3 year manufacturing and leadership development program designed to develop emerging talent for critical positions of increasing responsibility within the Manufacturing Division while contributing to key business initiatives that help our patients and customers. The program includes three tracks; operational, technical and business. Each year a number of rotations are offered globally based on business needs.

At the beginning of the MMLDP program I spent five weeks at the Elkton site in Virginia completing the MMLDP introductory “Bootcamp”. Here I worked in the vial filling building, on a project to map and consolidate the utilities crucial to maintaining a sterile environment. This was a truly great experience where I got to meet and interact with the other members of my program.

I chose the technical track and my first rotation in the program was at Ballydine, Ireland where I worked as an engineer in the Process Development and Commercialization (PDC) group in the Drug Product area. While at Ballydine I had the chance to work on several projects, including hands on experience on the shop floor during development campaigns. One of the best things about my rotation at Ballydine was getting to see, and be part of, the process of commercialization; seeing how drugs are developed and progressed through clinical trials, then validated.

For my second rotation I will be based at West Point (PA), USA where I will be working on lean manufacturing and supply chain design. My third rotation is yet undefined and I will be involved in deciding where that will be later this year.

I would strongly recommend applying to the LDP program. My experience so far has been fantastic and the support from the managers and the buddy system allows priceless insight at different levels of the organization.

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MAIREAD RICE University College Cork

Chemical Engineering Graduate | MSD in Brinny

I applied for the graduate programme as I had worked in MSD in Brinny on a six month work placement and I also completed my final year project in collaboration with Brinny.

One of the great things about MSD in Brinny is the extensive experience people have and the learning experience you receive from working across the varied teams. The programme gives you huge insight into the work done at Brinny as you get 360 degree exposure to the business. Each project is different and I really enjoy the problem-solving involved in the technical and strategic projects we are assigned.

I've recently been appointed to Project Steward for one of MSD's lifesaving drugs, which is a challenging technical role but great experience and responsibility. I am the technical single point of contact for each manufacturing node covering not only work done in Brinny, but in all manufacturing sites as far as Heist in Belgium.

My acceptance into MSD's General Management Acceleration Program (GMAP) has been the highlight of my time here so far. This programme will give me a chance to work in different parts of the business in Ireland, and around the world on international assignments.

The best thing about MSD is the people – not just in Brinny but across MSD in Ireland, as they are willing and eager to share information and develop graduates. It's an exciting, challenging and fun place to work.

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MSD: Be part of our global network

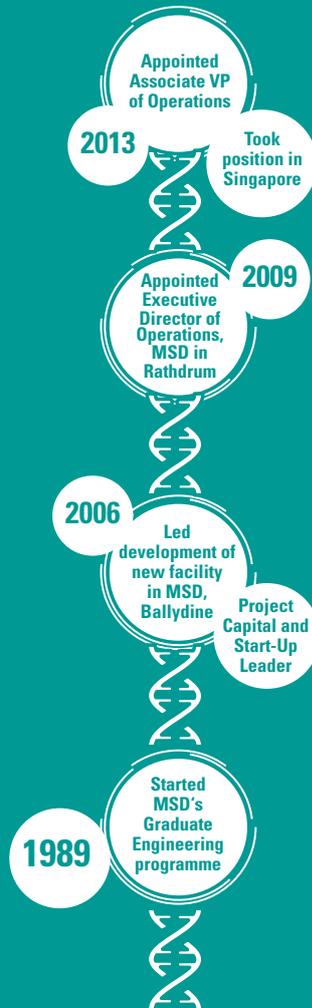
Here are some of the members of our senior leadership team. Take a look at their journey with MSD so far!



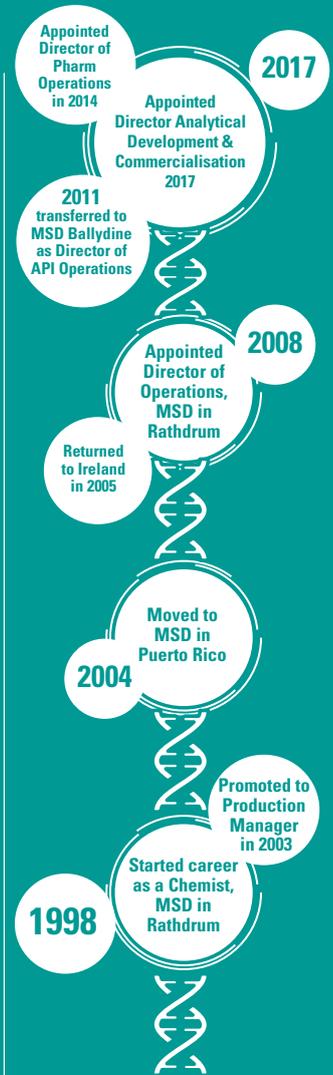
BARRY MULCAHY
Site Lead, MSD Brinny.
Cork Institute of Technology



GER CARMODY
Associate VP of Operations,
MSD in Ballydine.
University College Dublin



JOHN SMITH
Associate VP of Operations,
MSD in Singapore.
University College Dublin



EVA GALLAGHER
Director of Analytical
Development &
Commercialisation,
MSD in Ballydine.
Trinity College Dublin

CAOIMHE O'RIORDAN

MSD in Brinny

The MSD graduate program gave me a widespread understanding of the contributions of all departments to the safe and compliant operation of the site. I was rotated across different areas of the business and gained experience in both Technology and Operations.

The fast pace work environment and the support offered on the program gave me skills and expertise that will allow me to transition to new opportunities with greater responsibility across the site.

**ERIN REIDY**

MSD in Brinny

"Every day is different on the graduate programme and there are lots of opportunities to enhance your skill-set by putting yourself forward for projects. Aside from the technical experience, contributing to the manufacture of safe, effective and life-changing pharmaceuticals is very rewarding.

Experience I've gained during the graduate programme allowed me to progress my career within Sterile Biopharmaceutical manufacturing in Brinny. This in turn has provided the opportunity to go on a year's assignment to MSD Singapore, where I am working with the technology transfer team to expand the manufacture of one of our top products in Asia."

**FRANK O'GRADY**

MSD in Ballydine

"MSD look to build your technical knowledge and place you on challenging projects which makes it an ideal company for any graduate seeking exciting experience! You get to work in various departments with current supply products and new products on clinical trials, so you get a great sense of everything. It's a fast paced environment, but MSD also balance this with lots of sports and fun as there are a wide variety of clubs and societies to cater for everyone."

**AISLINN COGLAN**

MSD in Brinny

"The graduate programme in Brinny was a great way to experience a wide range of different departments. Each rotation comes with increasing responsibility, and there is a fantastic support network to map your career throughout the process. I have since moved to the Global Engineering Solutions group, working across multiple countries to design and build new production facilities. After 2 years in London, I am now on assignment in Vienna, Austria. The company is expanding incredibly fast, and the opportunities for professional growth are endless."



Why people join us...



Be part of a team that makes a difference



Join an impressive network of professionals



Take the first step to an incredible career



Form great friendships



Gain technical, leadership and business experience



Be at the forefront of healthcare and discovery both in Ireland and globally



Gain industry recognition



Have fun



“WE TRY
NEVER TO
FORGET THAT
MEDICINE IS FOR
THE PEOPLE. IT
IS NOT FOR THE
PROFITS.”

George Merck





For more information
visit www.msd.com

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