



MSD GRADUATE PROGRAMME
CHEMICAL ENGINEERING
2016

Cardiovascular



Bones/Respiratory/
Immunology/
Dermatology



Diabetes/
Obesity



Biologics



Neurosciences/
Ophthalmology

Vaccines



Infectious
Diseases



Women's Health/
Endocrine



Oncology



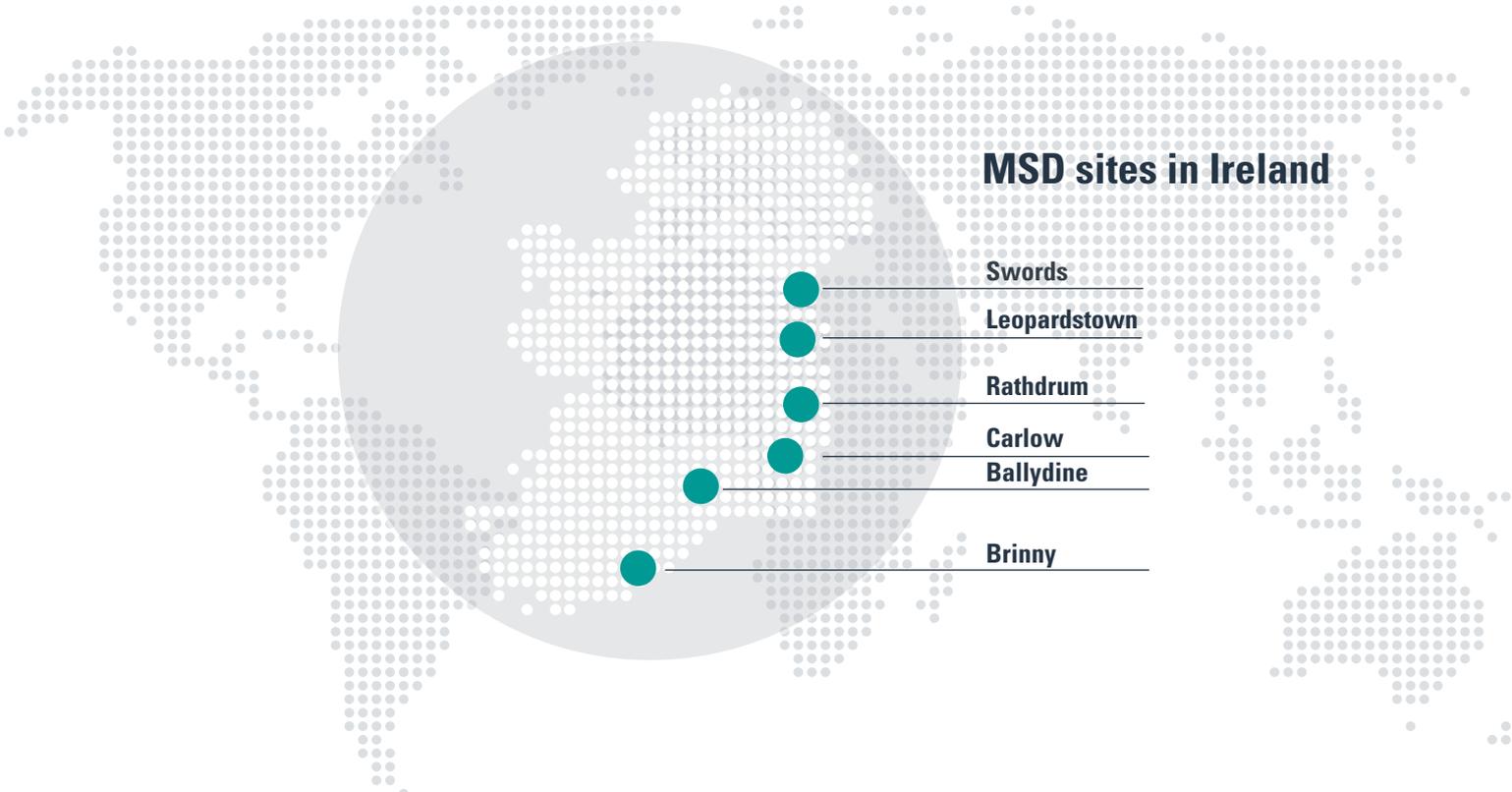
Diversified
Brands

We are MSD

MSD has a strong legacy in Ireland that stretches back 50 years. With many of MSD's leading global products manufactured or produced here, Ireland plays a critical role in MSD's worldwide operations.

One of the world's leading healthcare companies, operating in 140 countries, MSD now employs more than 2,000 people in six sites across Ireland. Over the past five decades MSD has invested more than €2.2 billion in Ireland, significantly contributing towards making the pharmaceutical industry the country's leading export sector.

Known as MSD worldwide except in the US and Canada where we are Merck, MSD develops and delivers 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

Swords

Leopardstown

Rathdrum

Carlow

Ballydine

Brinny

MSD: Be the difference

Our passion and point of difference is improving health and this keeps us at the forefront of scientific discovery and innovation.

Our chemical engineers are integral to this ambition and help us continue to find ways to pursue scientific discoveries.

Our core values are driven by the desire to improve life, achieve scientific excellence, operate with the highest standards of integrity, expand access to our products, and employ a diverse workforce that values collaboration.

Many of the most widely used MSD medicines are developed by our teams in Ireland, with over 60% of MSD's global top 20 products now manufactured here. 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

€3 billion

in 2014

€300m



INVESTED

in R&D in Ireland in 2014 & 2015

€11.5m

INVESTED IN 2015

in MSD in Carlow, MSD's first vaccines facility outside of the US



€2.2bn

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

€72m

INVESTED IN CAPITAL SPEND

for the period 2014 - 2016 in MSD in Ballydine

Over €7.5m



anticipated investment in clinical trials in 2014/2015



61%

of MSD's global top 20 products are manufactured here in Ireland

ANNUALLY WE SPEND IN EXCESS

€400m

ON GOODS AND SERVICES IN IRELAND

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

As a global company we are also a global citizen. 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.

Together with our employees and our community partners, we work to make a difference through an ambitious corporate citizenship programme and locally supported initiatives.

1,400 hours

Volunteered by MSD's Irish employees in 2014



€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 chemical engineering graduate programme is a three year on-site work placement programme designed to develop industry-leading chemical engineers.



MSD: What some of our people say



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AOIFE ROBINSON University College Dublin
Chemical Engineering Graduate | MSD in Ballydine

MSD is a fantastic place to start and continue your career as a chemical engineer.

In Ballydine we produce both Active Pharmaceutical Ingredients (API) and drug product, and at the moment I am in the Process Development and Commercialisation (PDC) group in the drug product area. To date I have had varied experience across development, clinical and bio-batch 3 campaigns for various products. This involved working with different teams within the PDC group and also working with different groups in the Pharmaceutical Operations Facility.

I would have to say completing my lean six sigma yellow belt in June 2014 and my trip to a Colorcon training course in the UK, in order to learn more about drug film coating, have been my stand-out moments of the graduate programme to date.

I also spent some time in MSD in Philadelphia to learn about a drug product we were bringing to Ballydine. This was an amazing experience and opportunity. We work very closely with our colleagues in the US so it was great to build up a strong working relationship, and also to learn about the early development of a product before it arrived to MSD in Ballydine.

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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.

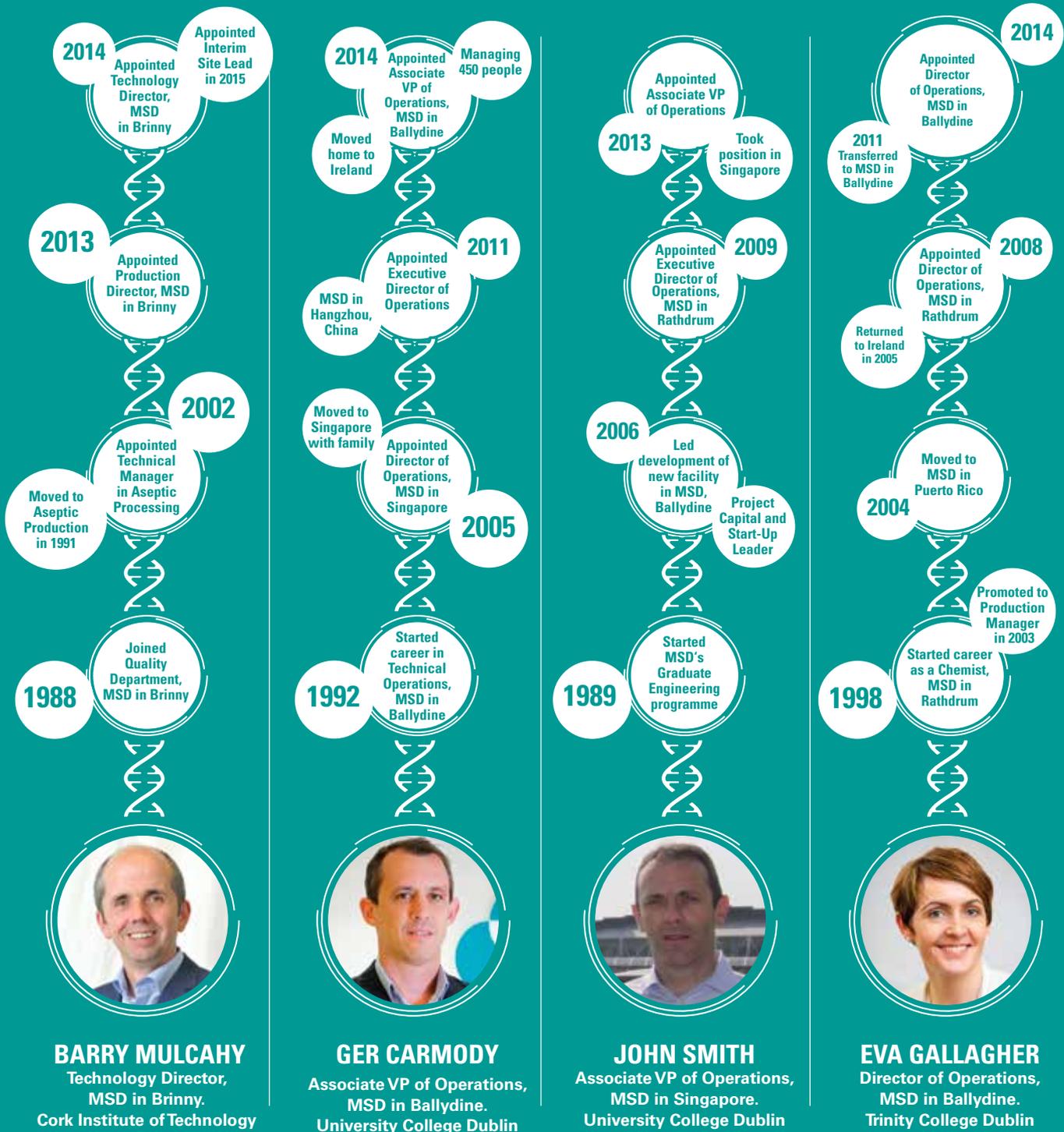
My acceptance into MSD's General Management Acceleration Program (GMAP) has been the highlight of my time here so far. This programme will give me a chance to work in different parts of the business in Ireland, and around the world on international assignments.

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!



TOMÁS MCCARTHY

MSD in Brinny

"It's a challenging environment that really allows me to develop a rounded skill-set for my career. Since I started, I have worked with really experienced people and the MSD culture is a big part of why I really enjoy my job."

**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. I've loved the dynamic manufacturing environment and hands-on experience I have received at MSD to date. However, aside from the technical experience, contributing to the manufacture of safe, effective and life-changing pharmaceuticals is very rewarding."

I've also nabbed the coveted role of sports and social treasurer this year, so I've enjoyed organising all site sports and fundraising activities."

**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 COGHLAN**

MSD in Brinny

"The graduate programme includes a rotational programme that gives me not only a chance to experience different areas to see where I fit best, but also to make contacts and friends across departments. The rotations prove you are capable of adapting to change and, although you are given a lot of responsibility, there is a fantastic support network here at MSD."



Why people join us...



Be part of a team that makes a difference



Join an impressive network of engineering professionals



Take the first step to an incredible career



Form great friendships



Gain technical, leadership and business experience



Be at the forefront of healthcare 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.ie

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 **MSD**
Be well