

Relocation of the  
European Medicines Agency

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# Dublin

*Where the world comes to work*

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[www.emadublin.ie](http://www.emadublin.ie)



An Taoiseach  
Enda Kenny, T.D.

### A message from An Taoiseach, Enda Kenny, T.D.

The Irish Government decided to propose Dublin as the new location for the European Medicines Agency as we strongly believe our capital city has all of the features and amenities needed for the EMA, its staff and the wider life sciences community to seamlessly continue their essential work for the EU and its citizens.

Dublin is a modern, thriving, European capital and is a great place in which to live and work. It is a vibrant city with a young, well-educated, multicultural population, supported by top class education institutions and offering outstanding quality of life, with great cultural and recreational facilities.

Dublin offers excellent infrastructure for international businesses, including excellent transport links, office premises and hotel accommodation. For the extended community that are an integral part of the EMA's work, a true Irish welcome for their visits to Dublin awaits.

As Taoiseach, I would be delighted to welcome the EMA to Dublin. I can assure the Agency of every assistance and cooperation across Government in making its move a successful one.



Minister for Health  
Simon Harris, T.D.

### Foreword by Simon Harris, T.D., Minister for Health

The European Medicines Agency plays a vital role in the protection of the health of over 500 million European citizens through the scientific evaluation and safety monitoring of human and veterinary medicines. The Agency is also critical to maintaining the competitiveness of the European pharmaceutical industry which is worth around €260 billion annually.

As a safe, modern city, well connected to the rest of Europe, Dublin provides a setting that will enable the Agency to continue to work effectively and to continue to develop, during and after its relocation. Dublin will enable the EMA to retain existing staff and attract and retain new talent.

Our strong life sciences and technology sectors, track record of excellence in medicines regulation and proven ability to attract and retain professionals from across Europe and beyond, mean that Dublin can meet the Agency's needs now and into the future.

The Irish Government believes that relocating the EMA to Dublin is the best choice for Europe. Simply put, relocating to Dublin will best meet the needs of the EMA and its staff and ensure that the Agency can continue to deliver, without interruption, an excellent service to citizens and the industries that it regulates, far into the future.



# Dublin

Where the world comes to work

There are many reasons why Dublin is the ideal location for the European Medicines Agency (EMA). Dublin can provide a sustainable and smooth transition for the EMA, the European regulatory network, its stakeholders and most importantly the people of Europe.



**A seamless transition**

A key factor in the successful relocation of the EMA will be a seamless transition of operations to its new location. This will allow the EMA to retain many key staff members, as well as maintaining as much of the agency's operational procedures and culture as is possible. Our proximity to London can play a large part in the sustainability of the EMA in its current format.

Dublin and London are both in the same (GMT) time zone. Following the UK's departure from the EU, Ireland will be the only country within the network with English as its primary language.

Dublin offers excellent air connectivity with other EU capitals and the rest of the world. The Dublin-London air route is one the busiest international routes in the world, with up to 370 flights per week and a flight time of just over one hour, enabling existing staff of the EMA to commute should they wish.



**Excellent quality of life**

The EMA's most valuable resource is its staff of 900 people. The suitability of Dublin as a location for young professionals and their families will be a hugely influential factor in ensuring retention of staff. With an economy growing year on year, Dublin will offer excellent career opportunities for partners and spouses of EMA staff.

Dublin offers an excellent quality of life for residents. It has all the amenities, infrastructure and convenience of a modern capital city, but with a safe, local and friendly feel. It is a city with a multicultural vibe.

The city is steeped in history and culture, and mountains and beaches are all within an easy drive.

Dublin is an affordable place to live, comparing favourably to other European capitals in cost-of-living indices. Importantly, the city offers a choice of accommodation types, fresh air, green spaces and activities at an affordable cost.



**An efficient operation base, with a 'can-do' attitude**  
Ireland has been ranked first in the world for the efficiency of large corporations; first for the flexibility and adaptability of its workforce and first for a national culture that is open to new ideas.

Overall, the IMD World Competitiveness Yearbook ranked Ireland the seventh most competitive of 61 countries across the world in 2016.



**World-class talent pool**  
Dublin offers an exceptional, highly educated, diverse young talent pool with fluency across all European languages. Over half a million Irish residents speak a foreign language fluently, including approximately 185,000 Irish nationals who speak a foreign language at home.

With one of the youngest and most highly educated populations in Europe, Ireland has a resource that cannot be easily replicated elsewhere.

52% of 25 – 34 year olds have a third level qualification (OECD) — higher than any other EU country.

Our talent pool extends across a range of skills and disciplines, with particular strengths in the areas of life sciences and ICT. We continue to develop our talent base with exceptional education programmes and facilities, complemented by a host of world-class research programmes.



**Dynamic life sciences sector**  
Ireland has a long tradition of pharmaceutical operations excellence and has been attracting and retaining foreign direct investment in the life sciences for over 50 years. Nine of the top ten global pharmaceutical companies have a presence in Ireland, with a number of these having operations in Dublin. Furthermore, over €10 billion in new investments have been made over the last 10 years in biotech manufacturing facilities in both drug substance and drug product. Key to attracting this investment has been Ireland's strong regulatory environment and the availability of skilled life sciences professionals.

- 1 Dún Laoghaire, a suburban seaside town just a short drive south of Dublin city centre.
- 2 The Bord Gáis Energy Theatre, a 2,111-capacity theatre in Dublin's Docklands.
- 3 Staff at AMBER (Advanced Materials and BioEngineering Research).
- 4 SSPC (Synthesis and Solid State Pharmaceutical Centre) staff member.





### Leaders in Innovation and Collaboration

Ireland also has one of the most collaborative research systems in the world. Driven by Science Foundation Ireland, there is a clear commitment to support outstanding research talent and a particular focus on the life science and ICT sectors. Innovation for future healthcare will increasingly centre on the convergence between medical device, pharmaceutical and information and communication technologies, and all three drivers come together in Dublin.

Science Foundation Ireland's researchers collaborate with over 370 multinational companies and 437 small/medium enterprises and in 2015 increased investment in research and development from private enterprise by 44%.

In addition, the same cohort of researchers reported over 2,000 international academic collaborations in 62 countries.

Following on from this convergence of technologies will be developments in the area of biological medicines and biotechnology. Ireland already has a firmly established research and development (R&D) presence in this sector, supported by a state of the art National Institute for Bioprocessing Research and Training (NIBRT, [www.nibrt.ie](http://www.nibrt.ie)), facilitating innovation and delivery from concept to product. Located in a new world-class facility in Dublin, this global centre of excellence, which acts as a "flight simulator" for biotech manufacturing, has been purpose built to replicate a modern bioprocessing plant and now trains over 3,500 people annually. NIBRT also conducts process research as a service on behalf of biotech manufacturers in Ireland and overseas.

### A track record of excellence in medicines regulation

Located in Dublin, the Health Products Regulatory Authority (HPRA) has an international reputation in regulatory excellence, and an exceptionally strong, established working relationship with the European Medicines Agency (EMA) and international counterparts. The agency has a demonstrated ability to evolve and adapt, now governing a unique and extensive range of health products. It is an integral part of the European network, with experts participating in and chairing or co-chairing a number of EMA committees and working groups. As a result the HPRA already provides significant support to the EMA and this can be rapidly scaled up in the event of relocation. The importance of co-operation and harmonisation is central to the HPRA's regulatory approach, as demonstrated by its commitment and involvement at the Heads of Medicines Agencies (HMA), the International Medical Device Regulators Forum (IMDRF) and the International Coalition of Medicines Regulatory Authorities (ICMRA).

The HPRA values highly the supplementary programmes and initiatives that support the Agency and the Network. It has played a leading role in the implementation of the telematics and regulatory optimisation objectives for the medicines regulatory networks in Europe.

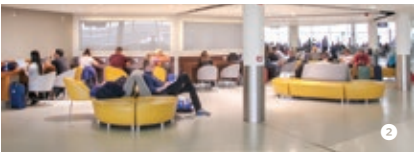


Dublin Airport offers excellent direct air connections to EU capitals and a vast European network comprising 145 routes.



SEAMLESS  
TRANSITION

- 1 Terminal 2 arrivals gate.
- 2 Passenger waiting area.
- 3 Departing passengers.



Dublin offers state-of-the-art optical networks and world-class national and international connectivity, providing advanced and competitive telecommunications infrastructure. With numerous multinationals including SAP, Google and Microsoft setting up their European headquarters in Dublin, it is clear that the city can meet the ICT needs of the Agency.

**Connected to London**  
With a flight time of just 1 hour 15 minutes, commuting between Dublin and London is a very realistic option for employees making arrangements to move their families or even on a longer-term basis. Competition on the route means cost-effective pricing, with up to 370 flights per week between the two capitals.

**Connected to Europe**  
In Dublin, nowhere in Europe is far away. The top ten destinations to and from Dublin Airport include Paris, Amsterdam, Frankfurt, Brussels and

Madrid, with many of Europe’s regulatory destinations just a few hours away.

**Runway to the USA**  
Dublin is the fifth best connected airport in Europe for transatlantic flights and the only European capital with US pre-clearance facilities. This means that all US customs and pre-clearance checks are completed in Dublin before arrival into the United States of America, meaning passengers can clear US Immigration, Customs and Agriculture controls prior to departure.

Approximate flight times  
between Dublin and other  
top business destinations

DESTINATION →	FLIGHT TIME ✕
London	1 HR 15 MINS
New York	6 HRS 30 MINS
Paris	1 HR 30 MINS
Rome	3 HRS 5 MINS
Madrid	2 HRS 30 MINS
Brussels	1 HR 40 MINS
Toronto	6 HRS 45 MINS
Tokyo	14 HRS 55 MINS





In 2016, the Airports Council International ranked Dublin Airport No. 1 for customer service ahead of all other European airports of a similar size.

Dublin Airport has direct flights to 185 destinations in 41 countries. Rated the fastest growing airport in Europe in 2016, Dublin Airport offers excellent direct air connections to EU capitals and a vast European network comprising 145 routes.

Average through time from the aircraft to exiting the airport is 20 minutes or even faster for passengers carrying only hand luggage. The airport is just 12km from Dublin city centre, served by bus or a 20-minute taxi journey.

#### World-class office solutions

A critical requirement for the EMA is a bespoke building that will allow the Agency to continue to operate at the highest standards. Following a market review of available opportunities, and discussions with relevant state agencies, the Irish Government has identified two particularly suitable locations, one in the Dublin Docklands and the other in Dublin Airport Central, a vibrant new commercial district located within Dublin Airport.

The first site is located in the rapidly developing North Docklands Area close to Dublin City Centre. It also falls within a Special Development Zone (SDZ), which was instigated as a catalyst to support and encourage the efficient redevelopment and rejuvenation of this area of the city. In terms of transport, the site is no more than twenty minutes from Dublin Airport via the Port Tunnel and the cross-city tram system which terminates at the building's doorstep. It is also well served by city buses.

The second option is located in Dublin Airport Central, a vibrant new commercial district within Dublin Airport. A new 500,000ft<sup>2</sup> office development will shortly commence construction. The new development will be walking distance to terminals offering seamless access to more than 600 flights daily to over 180 destinations worldwide. This exciting new development will also include shops, restaurants and medical care, as well as a new 400+ bedroom hotel linked to Terminal 2.

Both of these options allow for considerable input by EMA into the final layout and can be ready by Q1 2019.

- 1 Dublin Docklands.
- 2 Dublin Airport Central, a vibrant new commercial district located within Dublin Airport.



#### Meeting spaces

The Convention Centre Dublin is a world-class conference venue in the heart of Ireland's capital city in Dublin's Docklands, just 20 minutes from the airport. Since opening in September 2010, it has won 34 industry awards and continues to position Ireland on the world stage for international conferences, congresses and events.



#### Hotel accommodation

In a compact, welcoming, international city, Dublin provides quality overnight hotel accommodation and international conference facilities.

With over 124 hotels (classified as 3 stars and above) and over 40,000 rooms Dublin has an abundance of overnight accommodation. As of late March 2016, 80 prospective projects to develop additional bed capacity in the city were identified. Some 65 of these will be open for business by 2020, generating over 5,500 additional bedrooms.

#### Easy to get around

Dublin is a compact city that's easy to get around on foot. Public transport options include bus, intercity and suburban rail and the LUAS light rail network.

- 1 The Shelbourne Hotel.
- 2 The Ashling Hotel.
- 3 Dublin's LUAS cross-city light rail extension is scheduled to be in operation by the end of 2017, enabling an additional 10 million passenger journeys per year.
- 4 Dublinbikes' self-service bike rental allows anyone from 14 years of age to two-wheel through the city centre, commuting between home and work or getting out and about to enjoy Dublin at their leisure.
- 5 The Convention Centre.





## EXCELLENT QUALITY OF LIFE

1 Apartment blocks in  
Dublin's docklands.



“Dublin is now a truly cosmopolitan capital, with an influx of people, energy and ideas infusing the ever-beguiling, multi-layered city with fresh flavours and kaleidoscopic colours...the place pulsates with youthful vibrancy, optimism and creativity”.

**LONELY PLANET, BEST IN TRAVEL, 2016**

Nowhere in Europe will the EMA teams who have put down roots in London feel closer to home than in Dublin. The city offers world-class standards of living to retain employees and attract new talent.

### **Diverse and rewarding career prospects for spouses and partners**

Ireland's job market is fully open to all members of EU and European Economic Area (EEA) countries, Norway, Switzerland and Iceland.

Ireland's economy grew five times faster than the Eurozone average in 2015, and we are now in the fifth year of continued

robust and sustainable economic expansion. GDP grew by 4.2% in 2016.

This continued growth is creating excellent employment opportunities in the city centre and greater Dublin area, providing a choice of high-quality career options for the partners and spouses of EMA employees.

Key opportunity areas include ICT, financial services, life sciences, manufacturing, media and digital content, healthcare, education and government.

### **A choice of accommodation options**

Whether planning to purchase or rent in Dublin, EMA staff have a wide range of accommodation options from city centre apartment living and terraced homes with gardens to single development housing within commutable distance. Earlier this year, the Irish Government announced plans to double the annual level of residential construction to 25,000 homes in the period to 2021. In addition, rent control legislation ensures that landlords can only raise rents in designated rent pressure zones within Dublin city according to specific rules, providing improved security and certainty for tenants.





CITY	MERCER RANKING	EIU RANKING
London	17th most expensive	6th most expensive
Dublin	47th most expensive	24th most expensive

Competitive living costs

Compared with London and other major European cities, Dublin is a cost-effective place to live. Both Mercer’s and the Economist Intelligence Unit’s 2016 Cost of Living surveys rank Dublin as having a cost advantage over Paris, London, Geneva and Copenhagen.

Family friendly childcare

Quality childcare is widely available throughout Dublin in a variety of formats.

Through the Early Childhood Care and Education (ECCE) Scheme, children can access a number of free hours every week with a playschool, naíonra (Irish-medium pre-school), Montessori or parent and toddler groups from 3 years of age until they transfer to primary school.

Quality Healthcare

With the relocation of 900 employees, their families and up to 350 visitors a day, a quality healthcare system is an essential consideration for the EMA.

Healthcare in Ireland is modern, safe and among the best in the world. Dublin offers extensive healthcare options in high quality public hospitals. Dublin's major University Hospitals host centres of excellence and deliver specialist medical services. There is also an extensive private hospital network in Ireland offering consultant delivered care. Ten of these hospitals are in the Dublin area including high technology hospitals offering specialist care.

World-leading education system

The Irish education system provides consistent, high-quality education through all levels of the school system. Our students’ achievements in international assessments demonstrate the particular strengths of our system:

- a centrally devised curriculum which facilitates equity of opportunity for all students
- integrated provision for children of all abilities, religious beliefs, and ethnic backgrounds

- highly professional teachers
- a diverse range of schools at all levels meeting the highest international standards.

Education options in Ireland include state-funded public schools, known as national schools, fee-paying schools and private schools. Two facilities offer the European Baccalaureate: the European Annex at St Andrew's, Booterstown, Dublin and the European School in Dunshaughlin, County Meath. Both are accredited and fully funded by the Irish Department of Education and Skills. In the event of a relocation of the European Medicines Agency to Dublin, the Department of Education and Skills will accredit a facility to offer the European Baccalureate to children of staff employed at the agency. In addition, a new private international school catering for local and expatriate students aged between three and eighteen years is scheduled to open in south Dublin in September 2018. The new school will feature extensive facilities, including specialist arts and STEAM (science, technology, engineering, arts and maths).



With Trinity College Dublin, University College Dublin and the Royal College of Surgeons in Ireland, the city hosts three schools of medicine, two schools of pharmacy and one school of veterinary medicine.

The IMD World Competitiveness Report ranks Ireland as having one of the best educational systems in the world. Over 40 per cent of people aged between 25 and 36 have benefited from third level education. Three of Ireland’s seven universities and four of its 14 institutes of technology are based in Dublin.

A safe and welcoming city

Dublin is also one of Europe’s safest and most welcoming capital cities. In 2016, Ireland was ranked the twelfth most peaceful place in the world, by the Global Peace Index, which rates 163 nations globally on measures such as conflict, safety and security in society and militarisation.

The Legatum Prosperity Index 2016 placed Ireland 13 out of 149 countries worldwide, commenting that not all of Ireland’s success is due to economics, citing “its spectacular achievements in education and personal freedom”, two sub-indices where Ireland scores in the top 10.

Green Spaces and Blue Flag Beaches

With a prevailing air flow from the Atlantic, Ireland has of one the best standards of air quality in Europe. Dublin is a low-density city with over 1,500 hectares of parks, green spaces, urban trees and the Bull Island Biosphere, providing ample room to roam.

Within a stone’s throw of the city centre, a coastline of sandy beaches, rocky coves, seaside towns and fishing villages offer thrilling sports, historical ruins, seafood dining and crystal waters with Blue Flag status. The city also has mountains and wilderness on its doorstep. A 30 minute drive south of Dublin will bring you into the Wicklow mountains national park, 20,483 hectares of wide open vistas.

Dublin, a progressive, cultured city

Dublin has been transformed by two decades of multiculturalism, from an international to an intercultural environment with a reputation for understanding and embracing the advantages of social diversity. In 2015, Ireland proudly became the first country in the world to introduce Equal Marriage for same-sex couples through a popular vote. Another 2015 landmark for equality in Ireland was the introduction of the Gender Recognition Bill, allowing transgender people over 18 to have their preferred and self-declared gender recognised by the state, without requiring testimony from a doctor.

The country has a proud heritage of traditional dance, music, theatre and literary excellence. With four Nobel laureates (Yeats, Beckett, Shaw and Heaney), universities of global distinction (TCD and UCD), countless theatre, arts and literary festivals and the internationally prestigious Dublin Literary Award, it is unsurprisingly one of 20 UNESCO Cities of Literature Worldwide.

- 1 Founded in 1592, Trinity College Dublin is located right in the heart of Dublin.
- 2 Dublin Bay.
- 3 The Phoenix Park.





With four Nobel laureates for literature (Yeats, Beckett, Shaw and Heaney), universities of global distinction (TCD and UCD), countless theatre, arts and literary festivals and the internationally prestigious Dublin Literary Award, it is unsurprisingly one of 20 UNESCO Cities of Literature Worldwide.

1 The National Gallery of Ireland, located in Dublin city centre.





### AN EFFICIENT OPERATION BASE, WITH A 'CAN-DO' ATTITUDE

Ireland has an impressive track record in winning foreign direct investment (FDI).

Home to 1,250 overseas company operations, the country continues to attract companies from a host of different sectors. Ireland has been chosen by nine of the top ten global pharmaceutical companies; nine of the top ten global software companies; nine of the top ten US ICT companies and thirteen of the top fifteen global medical technology companies.

#### A long-term commitment to the European Union

Ireland is one of the most pro-EU countries in Europe. According to the autumn 2016 Eurobarometer survey, optimism about the future of the European Union was highest in Ireland at 77 per cent, compared to an EU average of only 50 per cent. Irish respondents (55 per cent) were also the most likely to have a positive image of the EU. As a member of the eurozone, Ireland provides stability for the EMA and its staff.

#### IRELAND IS RANKED:

1st in the World for

Flexibility and adaptability of people <sup>2</sup>

National culture being open to foreign ideas <sup>2</sup>

Ease of complying with corporation legislation and regulation <sup>5</sup>

Investment incentives being attractive to foreign investors <sup>1</sup>

Availability of finance skills <sup>2</sup>

Real GDP growth <sup>2</sup>Exporting computer and information services <sup>6</sup>

Inward investment based on jobs per capita <sup>7</sup>

1st in Europe for

Workplace happiness <sup>1</sup>

Ease of paying taxes <sup>3</sup>

1st in Eurozone for

Supply chain risk quality <sup>4</sup>

<sup>1</sup> Indeed Workplace Enjoyment Ranking 2016

<sup>2</sup> IMD World Competitiveness Yearbook 2016

<sup>3</sup> PwC / World Bank Group — Paying Taxes 2016

<sup>4</sup> FM Global Resilience Index 2016

<sup>5</sup> TMF Group Global Benchmark Complexity Index 2015

<sup>6</sup> OECD Digital Economy Outlook 2015

<sup>7</sup> IBM Global Location Trends 2016 report





**WORLD CLASS  
TALENT POOL**

Our young workforce is capable, highly adaptable, educated and committed to achievement.

Ireland has the youngest population in Europe with one third of the population under 25 years old. Combined with one of the most highly educated work forces in the world, Ireland has a resource that cannot be easily replicated elsewhere. We continue to develop our talent base with exceptional education programmes and facilities, complemented by and integrated with world-class research programmes.

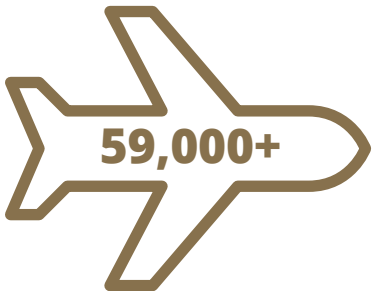
With a global visa programme and access to the European Union's 250+ million labour force, Dublin is where the world comes to work. Some 17% of Ireland's population is international with that figure increasing to 20% in Dublin. In 2014 alone, over 59,000 Europeans moved to Ireland to live and work. Within Science Foundation Ireland-funded research groups, 62% of Postdoctoral Researchers, 50% of PhD Students and 30% of Award-holders hold citizenship outside Ireland.



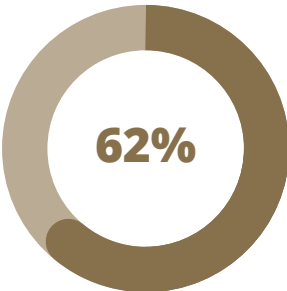
ONE THIRD OF THE POPULATION  
IS UNDER 25 YEARS OLD.



17% OF IRELAND'S POPULATION  
IS INTERNATIONAL.



IN 2014 ALONE, OVER  
59,000 EUROPEANS CAME TO  
LIVE AND WORK IN IRELAND.



62% OF POSTDOCTORAL RESEARCHERS  
HOLD CITIZENSHIP OUTSIDE IRELAND.





With the youngest population in Europe and one of the most highly educated in the world, Ireland has a resource that cannot be easily replicated elsewhere. We continue to develop our talent base with exceptional education programmes and facilities, complemented by and integrated with world-class research programmes.

1 The Long Room Library at Trinity College.





## DYNAMIC LIFE SCIENCES SECTOR, LEADERS IN INNOVATION AND COLLABORATION & A TRACK RECORD OF EXCELLENCE IN MEDICINES REGULATION

### **A heritage steeped in science, medical innovation and regulatory excellence**

Ireland is a global centre for pharmaceutical manufacturing and the bioprocessing industry.

As the seventh largest exporter of medical and pharmaceutical products in the world, Ireland is a leading centre for pharmaceutical manufacturing globally.

Over 75 international pharmaceutical companies operate here, many with multiple sites and FDA-approved pharmaceutical and biopharmaceutical plants. Spanning 82 individual manufacturing sites and 40 service operations, the sector employs over 28,000 people across a multitude of disciplines.



Ireland is currently undergoing a wave of investment in biologics manufacturing and is now home to 20 individual biotech facilities, which has resulted in over €10 billion of capital investment over the last 10 years.

Underpinning the success of the industry is Ireland's strong regulatory compliance track record and the availability of skilled pharmaceutical professionals.

### **A leader in medical device manufacturing**

Ireland hosts 13 of the world's top 15 medical device companies.

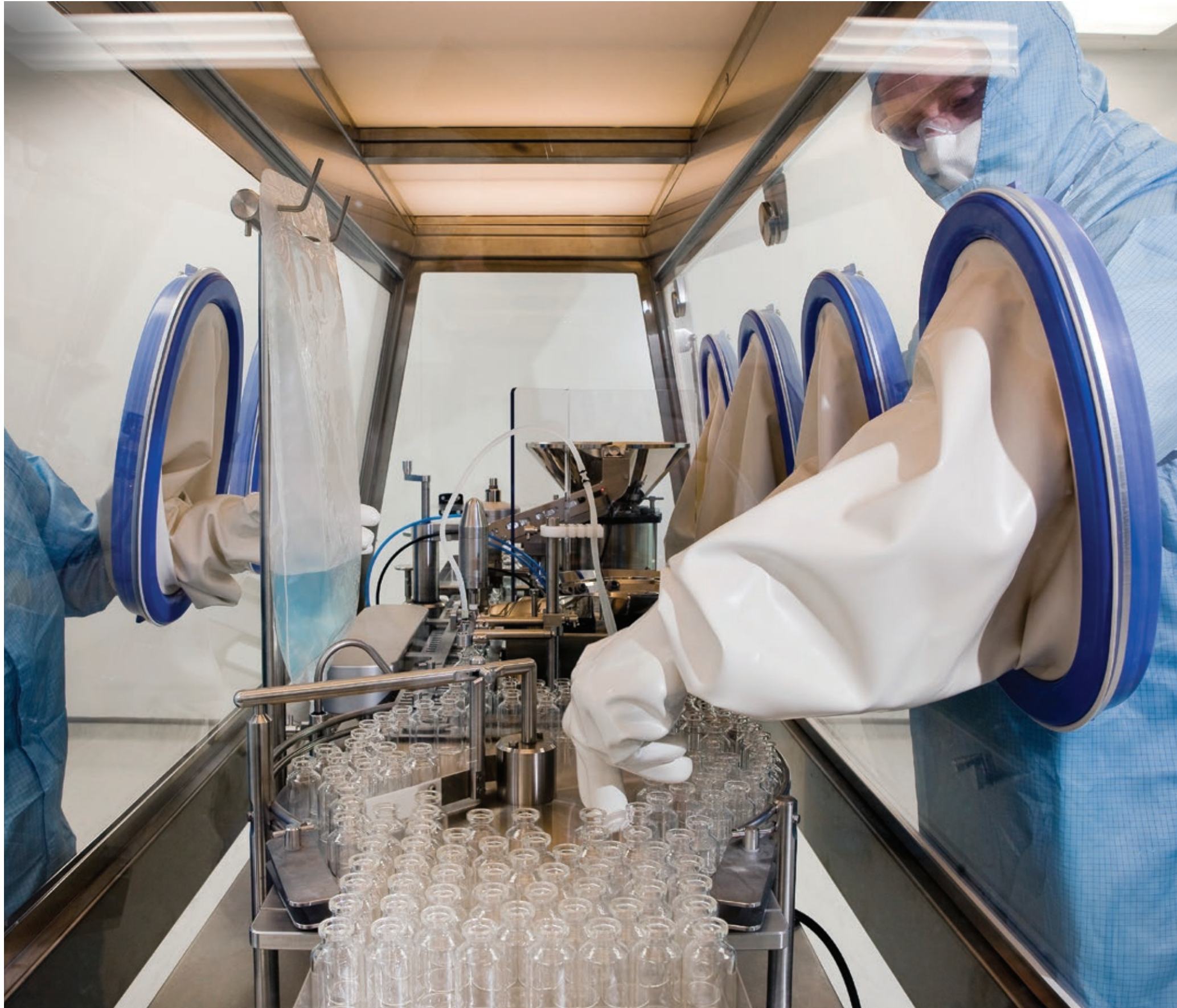
Moreover, a strong and innovative indigenous medical device sector has emerged in Ireland over the past two decades supported by a continually developing world-class research base and a strong clinical community.

Over 60 per cent of operations based here are engaged in research and development (R&D). Capabilities span the sector from vascular, orthopaedic, diagnostic, and ophthalmic to drug delivery, combination devices and connected health.

With the highest number of personnel per capita employed in medtech in Europe, over 29,000 people are directly employed by medical device companies in Ireland, and medtech exports represent 10 per cent of our total international sales.

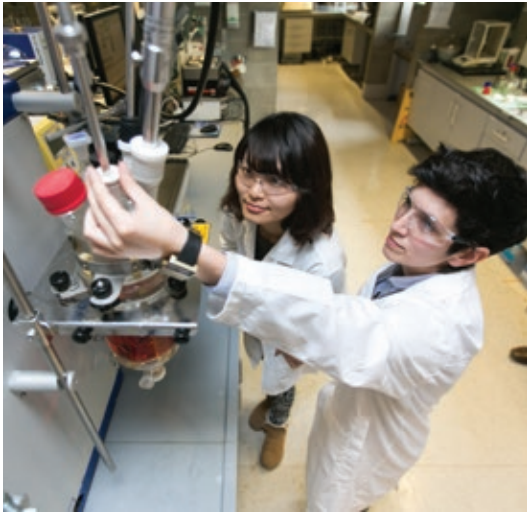
With a strong medical heritage, Ireland gave the world the portable defibrillator, the modern stethoscope and the hypodermic syringe.





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**Innovation at the heart of policy**

Ireland has built an innovation-driven culture and is now firmly on the global map in terms of excellence in research. Ireland's investment to date has been instrumental in strengthening indigenous enterprise, securing foreign direct investment, licensing new technologies, establishing new companies, and providing the highly-educated workforce needed to grow the economy and contribute to society. Ireland's economy is one of the most open in the world.

Nine out of ten of the world's top ICT companies and the full top ten global 'born on the internet' players have Irish bases.

Dubbed Silicon Docks, Dublin's hottest new tech quarter, along the city's Grand Canal, hosts Google, Facebook, AirBnB and TripAdvisor, Amazon, Twitter, Etsy, HubSpot, Groupon, LinkedIn, Eventbrite and Stripe.

**Connected research**

Ireland has invested significantly in the establishment of a coordinated, efficient and effective clinical research infrastructure, making the country a high-quality location for clinical research and trials.

To remain poised for radical changes and anticipated future developments, Ireland's research community has adopted a connected approach to ensure actors are engaged and collaborating with key stakeholders.

Ireland features strongly in the International Bibliometric Rankings across many subject areas, advancing to second place globally in the fields of Immunology, Molecular Biology and Genetics and Nano-technology and third in Materials Sciences. This demonstrates Ireland's path to climbing the industrial value chain.

**Science Foundation Ireland (SFI)**  
Science Foundation Ireland's research centres are built around outstanding talent and bring together the best teams from across the country's universities and institutes of technology.

Likewise, our Technology Centres see multinationals and small and medium enterprises (SMEs) work together with multi-institute research clusters.

Over the past four years, SFI has invested in 12 world-leading research centres of excellence that include the Synthesis and Solid State Pharmaceutical Centre; the Alimentary Pharmabiotic Centre; CÚRAM Centre for Research in Medical Devices; the Irish Centre for Fetal and Neonatal Translational Research (INFANT), and the Advanced Materials and BioEngineering Research Centre (AMBER). These Ireland-based, world-leading research centres have attracted investments exceeding €200m from industry partners.

Science Foundation Ireland's ICT-focused research themes include data analytics, software, photonics integration and future communications and networks.

**Health Research Board-Clinical Research Coordination Ireland**  
HRB-CRCI is an independent, integrated national clinical research network, providing centralised support in the conduct of multicentre clinical trials (both commercial and academic) across Ireland.

The CRCI central office provides overarching support and expertise, through a range of services and activities to academia and industry. Their partner Clinical Research Facilities (CRF), all co-located with the largest research and teaching hospitals, provide the infrastructure, physical space and facilities, experienced research and specialist support staff and quality and oversight programs that are critical for the successful conduct of world-class patient-focused research. HRB-CRCI and the CRFs facilitate research and are located throughout Ireland.

Ireland is also home to a number of high performing national Clinical Trial Networks, in areas such as cancer, stroke, perinatal care, critical care and primary care.

In addition, our clinical research system is supported by a dedicated, national methodology trials network.





**Molecular Medicine Ireland**

Molecular Medicine Ireland (MMI) is a not-for-profit research partnership promoting a strong multi-disciplinary and cross-institutional collaborative research environment. MMI mobilises the strengths of its five partner institutions and their associated hospitals to build a sustainable national system to coordinate, support and promote translational and clinical research, with a focus on development of diagnostics and therapies from concept to realisation.

MMI’s strategic vision is improved healthcare through the development of diagnostics and therapies from concept to realisation.

**Connecting digital and communications technology with medical therapies**

The Applied Research for Connected Health (ARCH) technology centre, hosted at University College Dublin (UCD), focuses on connecting digital and communication technology with medical therapies and enabling a shift towards personalised healthcare and information-based health services. Other Technology Centre themes include food for health, cloud computing, nanotechnology and pharmaceutical manufacturing technology.

● UCD campus, home to the Applied Research for Connected Health technology centre.



