





in Ireland → Manufacturing → Research and Development

Activities undertaken

- → Manufacturing Process Development
- → Regulatory Affairs
- → Supply Chain Management
- **→ Quality Activities**
- → Clinical Trial Management (CRO) **→ Software Development**
- → Global Shared Services → Data Centres
- → Digital & Data Analytics → Contract Manufacturing **Organisation (CMO) Management**
- All of the world's Top 10 pharmaceutical

Biologics manufacturing sites in Ireland:

Dynamic Growth

2020 2003

Technological Diversity

Small



biologics. in new biological production capacity

Manufacturing

product.

excellence in drug substance and drug



molecule and



in Ireland.

€5 billion capital

invested in 5 years









plants located in Ireland, 50 are FDA approved.

Biopharmaceutical



Culture of excellence in compliance and regulatory track record.

Strong and transparent regulatory framework provided by Ireland's regulator HPRA, EMA and FDA.

Digitalisation - Scale Up Competitiveness

- Process Optimisation

- Commercialisation

Key Priority Areas:

companies annually.

- World class training
- for the bioprocessing industry

nibrt

Natural Sciences, Mathematics, ICT, & Engineering⁴.

R&D & Training Infrastructure

REMEDI

Why Ireland for the

top 10 in the world.

Ireland ranks globally as³:







Biopharmaceutical Industry?



Manufacturing

Confirm

Talent Availability

EU. One-third aged under 25.

1st for flexibility and adaptability

1st for attracting and retaining talent

24% of graduates were in the areas of

Ireland has the youngest population in the

Ireland's education system ranked in the



Tax



Key Academia Industry Collaboration Centres



Research & Training

Collaboration

eagasc

cúrom **C**lero Insight

Enabling Clinical

and Translational

MM future

Research



AMBER.

Advanced

Materials +

Research

BioEngineering









Microelectronics



J

Sub-Supply

Capability



Applied

Polymer

Technologies

Track Record







Manufacturing **Excellence**

Implantable

Devices

Smart Medical

I-Form

Connected Research



Software

Research

Productivity and

Manufacturing

Sustainable

Solutions



Data Analytics

Consolidating

biotechnological sciences

Sources 1) CSO figures 2020. 2) World Trade Organisation and UN. 3) IMD World Competitiveness Yearbook. 4) HEA 2017/2018 Key Facts and Figures.

Advanced

Technology

Solutions in

Pharmaceutical

Manufacturing

Ireland. Right place Right time

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Research Centre for Global SFI Research Diagnostics, Institute for Diet, Centre for Innovation and Pharmaceutical Precision Medicine and Research in Al, and Biotech Advanced Therapeutics + Machine Process Research Manufacturing eHealth Microbiome Learning Company

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