

## **Brief Introduction**





- + Executive Director for the PPD Athlone GMP Lab (Ireland)
- + Technical background = Analytical Chemistry + DP/DS development. 20 years experience Fine Chemistry and Pharmaceutical companies managing Analytical R&D/QC labs in corporate positions.
- + Pharmaceutical R&D Executive and Innovation Director

Ismael.ValverdeMartin@ppdi.com



### ROLE OF YOUR AREA WITHIN THE PHARMACEUTICAL INDUSTRY

### QUALITY CONTROL ROLE

- The term quality control refers to all procedures undertaken to ensure the identity, efficacy, safety and compliance of a particular pharmaceutical by means of testing.
- Laboratory based inspection role all along the company operational chain.
- Procedures may range from simple chemical tests (infrared spectroscopy, etc.), to more complicated requirements (chromatography, microbiology).
- Activities extend to the area of quality assurance, logistics, manufacturing.
  - GMP
  - Audits/Inspections
  - Release (CoAs, LIMS)
  - Investigations/ Deviations/ Complains



### **SUPPLIERS**

API+ Excipients+Packaging Materials Intermediates, In Process Controls Final Products Retain Samples



### ROLE OF YOUR AREA WITHIN THE PHARMACEUTICAL INDUSTRY.

## ANALYTICAL DEVELOPMENT AND RESEARCH (ARD) ROLE

- Analytical Development role is to develop tools to guide the pharmaceutical development in order to have robust, feasible and quality driven products and processes.
- Laboratory based innovation role based on high analytical and chemical knowledge.
- Different chemical test with different purpose (IP, quality, clinical driven) which some of them need to be transferred to QC as part of product specification.
- Activities extend to the area of regulatory department, galenical and manufacturing departments and usually uses external company knowledge (p.e, CROs).



## ONE DAY IN THE OFFICE



### QC

- Planning daily activities with your team (resources allocation)
- Suspervision and 'release' activities (CoA generation, raw data revision..etc)
- Troubleshooting
- Company team discussions (investigations, audit preparations, projects being transfered..etc)

### **ARD**

- Planning daily activities with analyst and galenical project leader
- Observation, Conclusion, Fine-tuning, Reanalysis, Observation, Conclusion...
- R&D team discussions (What does this result mean?, next steps?..)
- Questions from authorities
- Reporting



## WHAT IS THE MARKET LOOKING FOR?

QC

Technical skills: Pharmacy, Chemistry, Biology Degree

Analytical techniques

GMP,ISO Standards in Laboratories

Statistiscal Knowledge

English

**Soft Skills:** Detailed oriented person

Analytical and research skills

Ability for multitasking

Teamwork

Pharmacy, Chemistry

Analytical techniques

Instrumentation

Pharmaceutical Process

English

Result oriented person

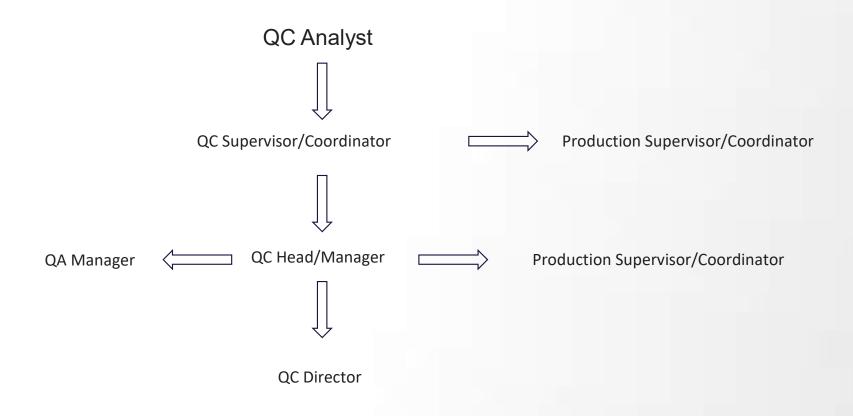
Sound judgment and decision making

Communication skills

**Project Management** 

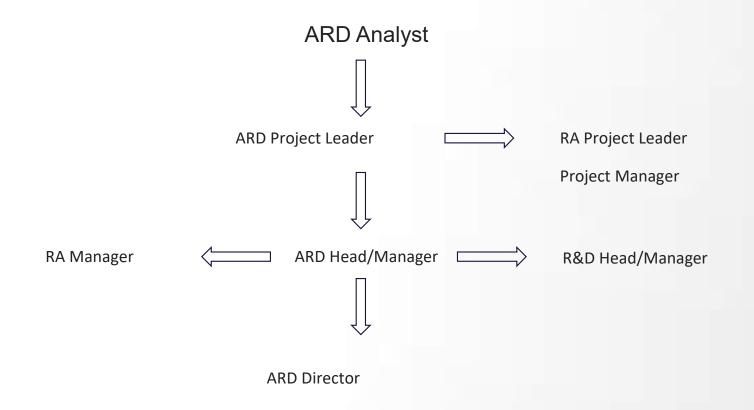
## **QC CAREER DEVELOPMENT**







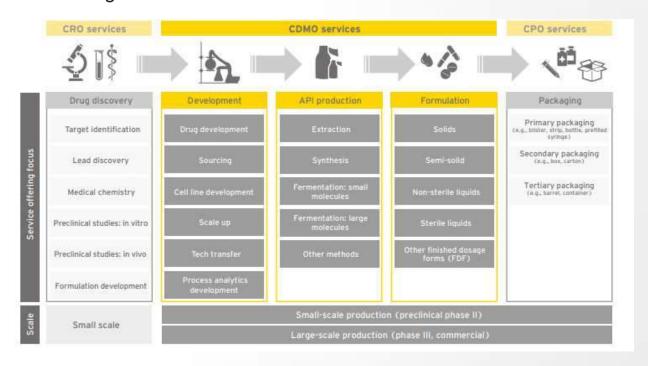
## **ARD CAREER DEVELOPMENT**



## **CRO/CMO/CDMO** concept



A contract `development and manufacturing organization (CDMO), is a <u>company</u> that serves other companies in the <u>pharmaceutical industry</u> on a <u>contract</u>. Services offered by CDMOs include, but are not limited to: <u>formulation</u> development, stability studies, method development/validation, pre-clinical and Phase I <u>clinical trial</u> materials, late-stage clinical trial materials, scale-up, registration batches, packaging activities and commercial production/testing.



CROs are companies specialized in research activities for pharmaceutical companies.



PPD became a Thermo Fisher group company







- Integration is on going
- Business/client driven and intended to exploit synergies
- PPD continues to be a brand and a legal entity (PPD development Ireland)











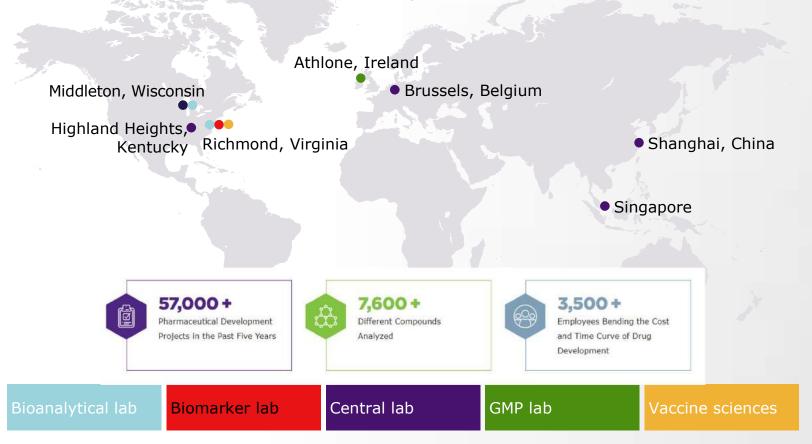
25,000+

Professionals worldwide

93 Offices, clinics and labs in 46 countries



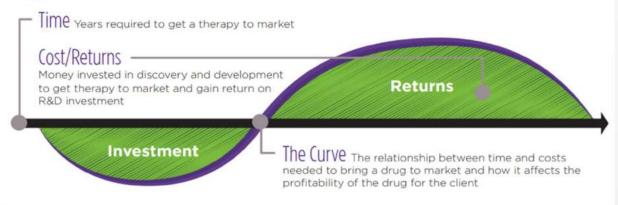
## A Global Network of Laboratories to Support All Phases of Drug Development



# Bending the Time and Cost Curve



**The Challenge**Time and costs for drug development influence the profitability of a drug. PPD has a vested interest in reducing time and costs.





If we reduce the time and costs to bring a drug to market, our clients have higher returns. PPD is moving the curve in the following ways:



Creative solutions



Innovative technology



Continuous process improvements



**Faster site** activation and recruitment



## **GMP Lab: One Lab, Multiple Locations**

More than 47,000 sq. ft. and 245 staff

MIDDLETON, WISCONSIN, USA

More than

435,000 sq.

435,000 sq. ft. and 1,600 staff

FUNCTIONAL SERVICE PARTNERSHIPS

Multiple client locations in the U.S. and Europe with more than 300 staff







## **Athlone- A convenient location in Ireland**







## **Current Athlone Laboratory Footprint**



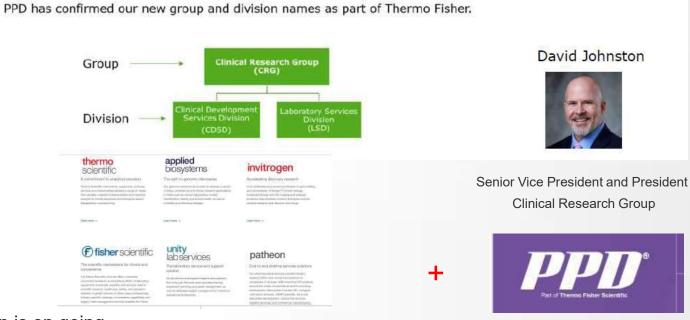








- Thermo Fisher Scientific officially acquired PPD on 10<sup>th</sup> December 2021
- PPD became a Thermo Fisher group company



- Integration is on going
- Business/client driven and intended to exploit synergies
- PPD continues to be a brand and a legal entity (PPD development Ireland)

### Thermo Fisher SCIENTIFIC

## **Careers – Why PPD?**

- Best in class training
- Excellent culture of teamwork and collaboration
- Diversity of work multiple clients and products
- Opportunities for employee growth and development
- Extensive Technical Expertise
- Excellent Quality Standards
- Work/Life Balance
- Rewarding contribution to bringing life changing therapies to market
- · Proud to be part of PPD



**Partner with PPD Laboratories.**Together we can deliver life-changing therapies.

https://www.ppd.com/careers

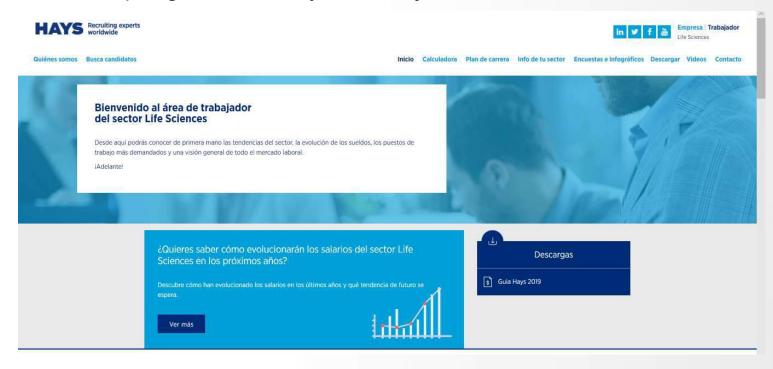
**Recruitment Team** 

Marguerite.Gately@ppd.com Michelle.Hand@ppd.com



### 6. LIFE SCIENCE MARKET EVOLUTION

https://guiasalarial.hays.es/trabajador/home



- Salary Estimation per position/location/experience
- Career plans
- Reasons for talent retention

## **QUESTIONS- Choose the right one**



### 1. Do QA and QC department perform the same activities in the pharmaceutical industry?

- a. Yes, they do. Therefore, both departments work under the same unit
- b. No, QA assures you are doing the right things, the right way while QC assures that the results of what you have done are the expected ones
- c. No, QC and QC are totally two independent departments in every single pharmaceutical industry
- d. No, because QC is the responsible department for releasing the product to the market

### 2. Analytical Research and Development Department...

- a. never participates in quality investigations for commercial products
- b. only develops the methods/tests that are finally used in the QC department
- c. needs to understand the process and the formula changes to correctly guide the development
- d. implies the use of limited analytical techniques

### 3. Why do Pharma industries use CDMO/CROs?

- a. CDMOs/CROs allow them to have access to new technologies, knowledge, markets
- b. CDMOs/CROs may help them in quick workload ramp ups and/or being more efficient
- c. CDMOs/CROs may help them in mitigating financial risks
- d. All above